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1983 TAIL-ERA DATA SERIES VOLUME 2

ISEE 3 Magnetic Field

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SERIES. VOLUME 2: ISEE 3 MAGNETIC FIELD
(NASA) 134 p

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National Aeronautics and
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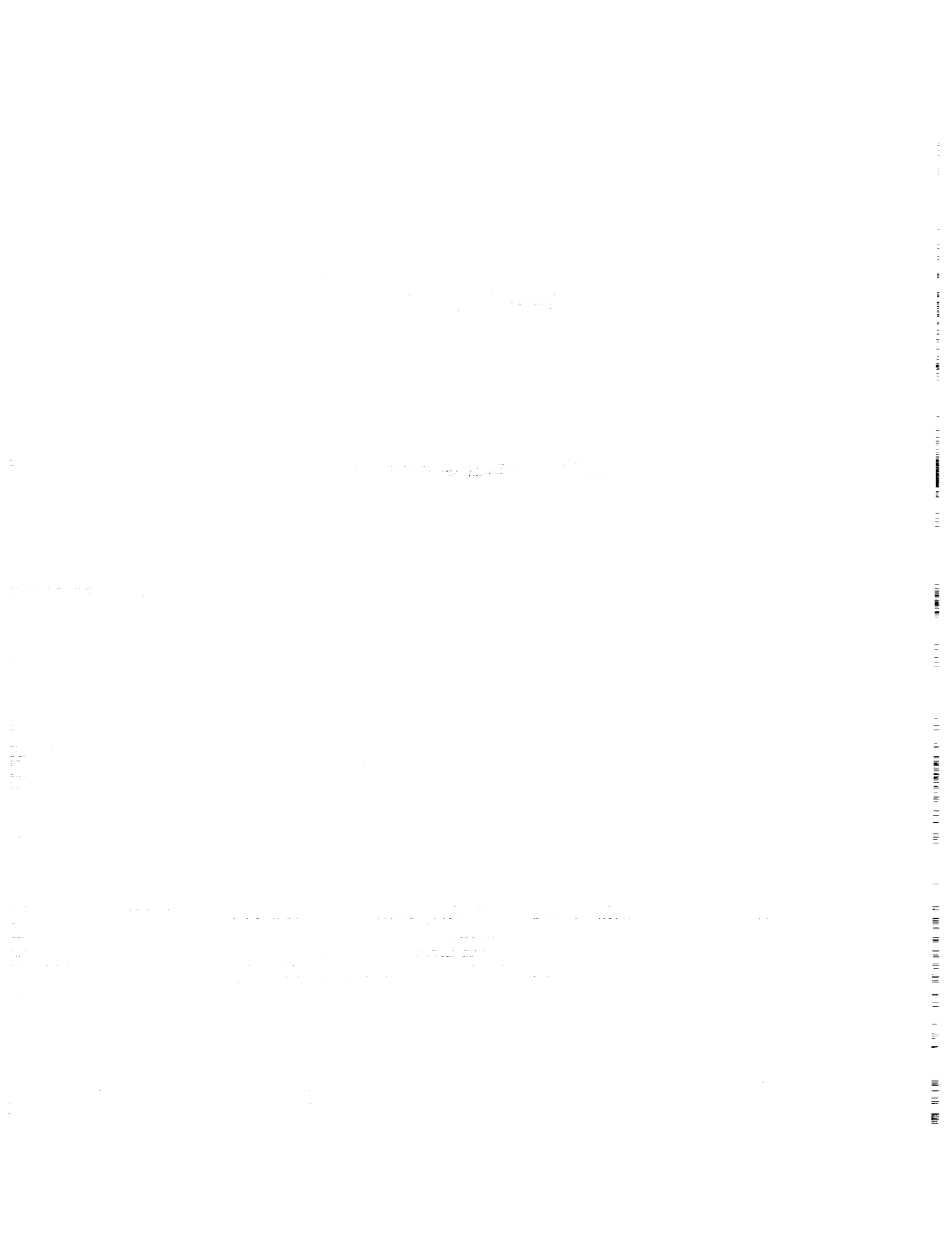
1983 TAIL-ERA DATA SERIES
VOLUME 2

ISEE 3 Magnetic Field

April 1990

Prepared by

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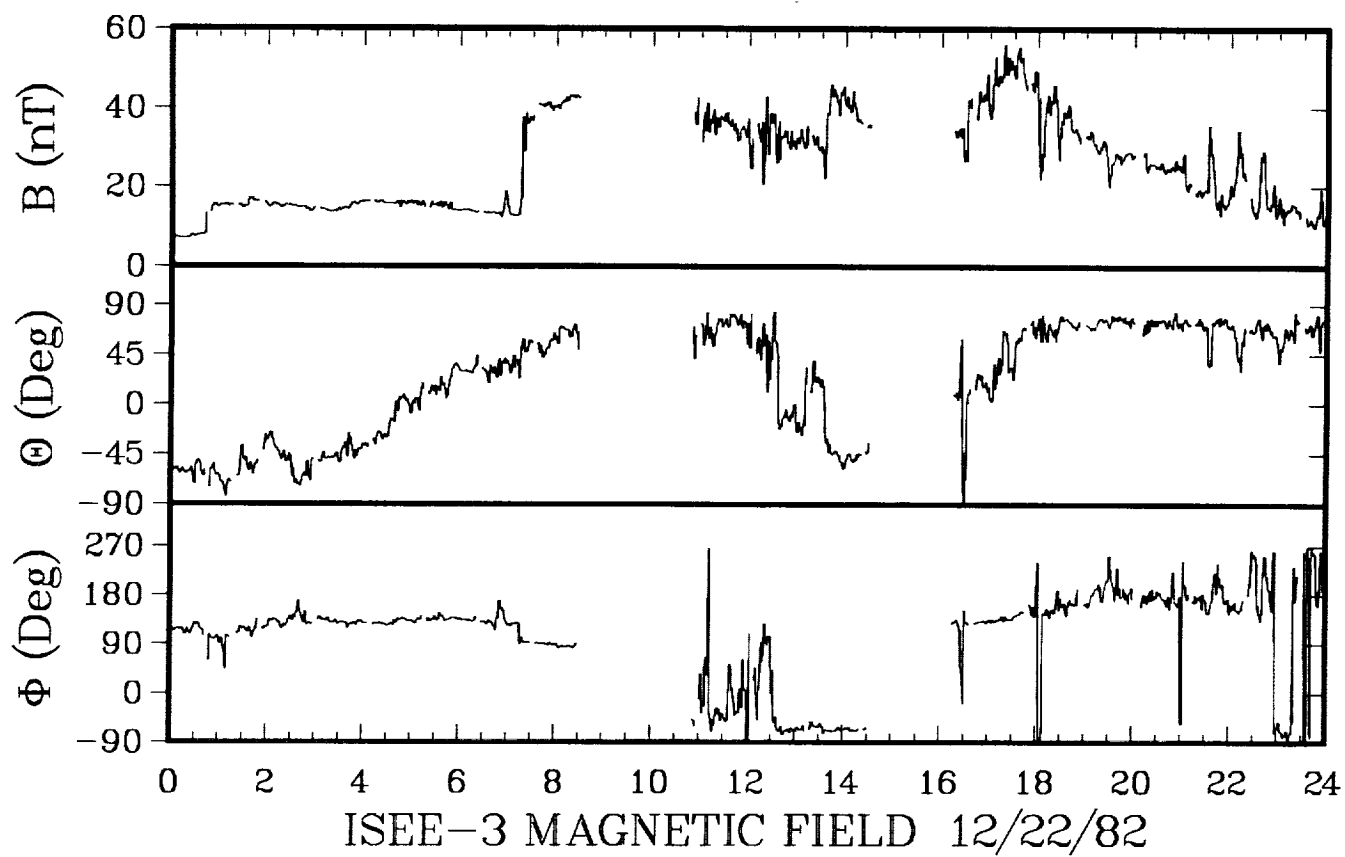
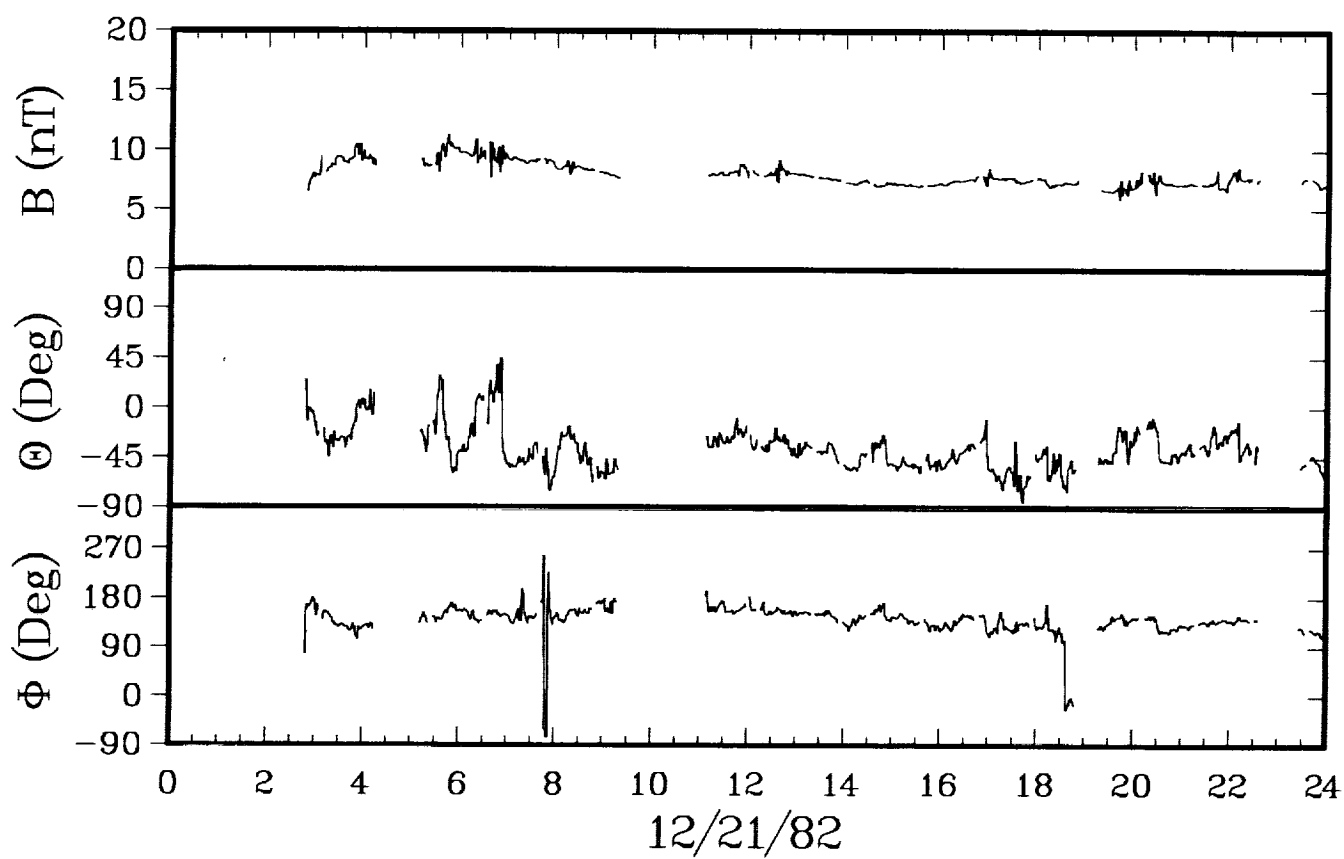


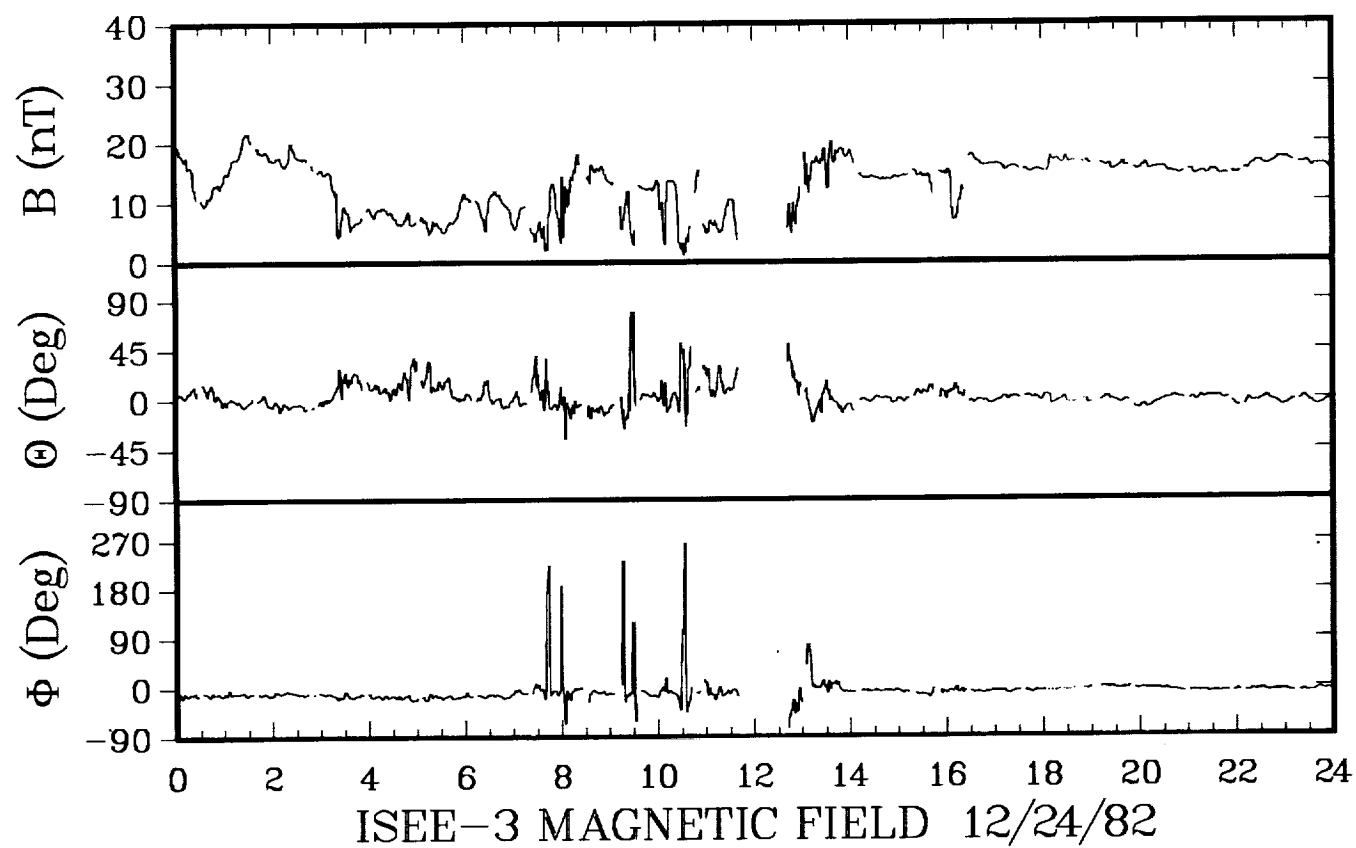
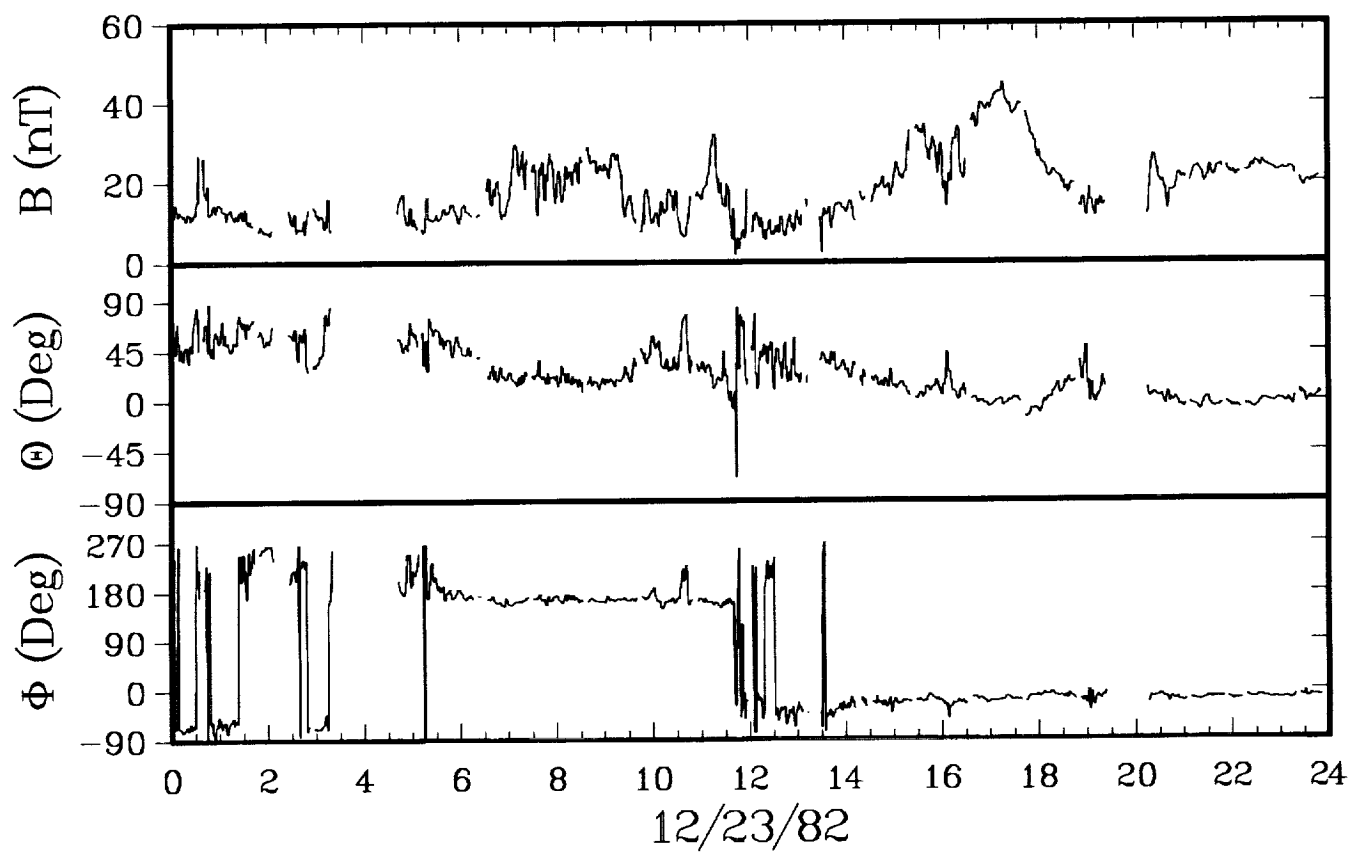
Foreword

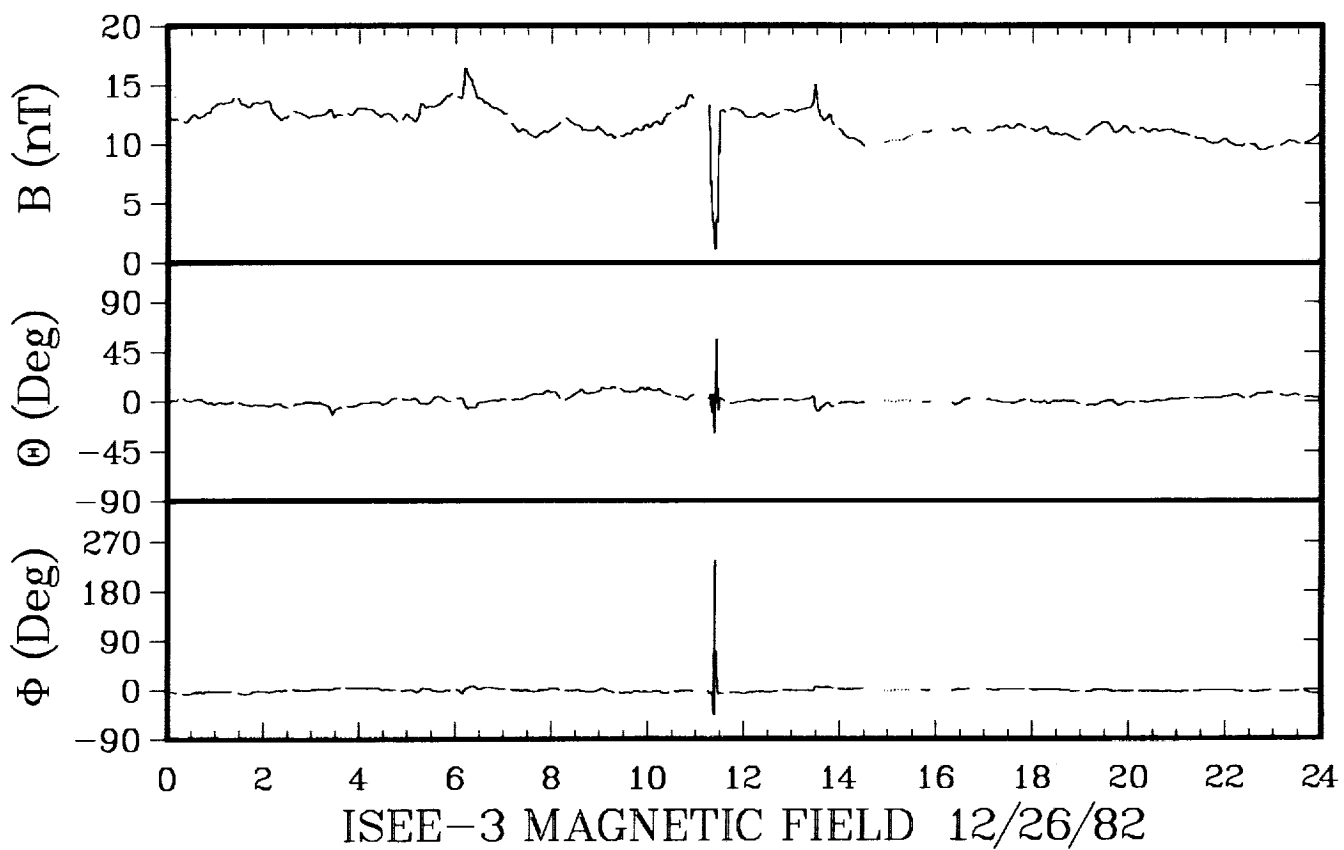
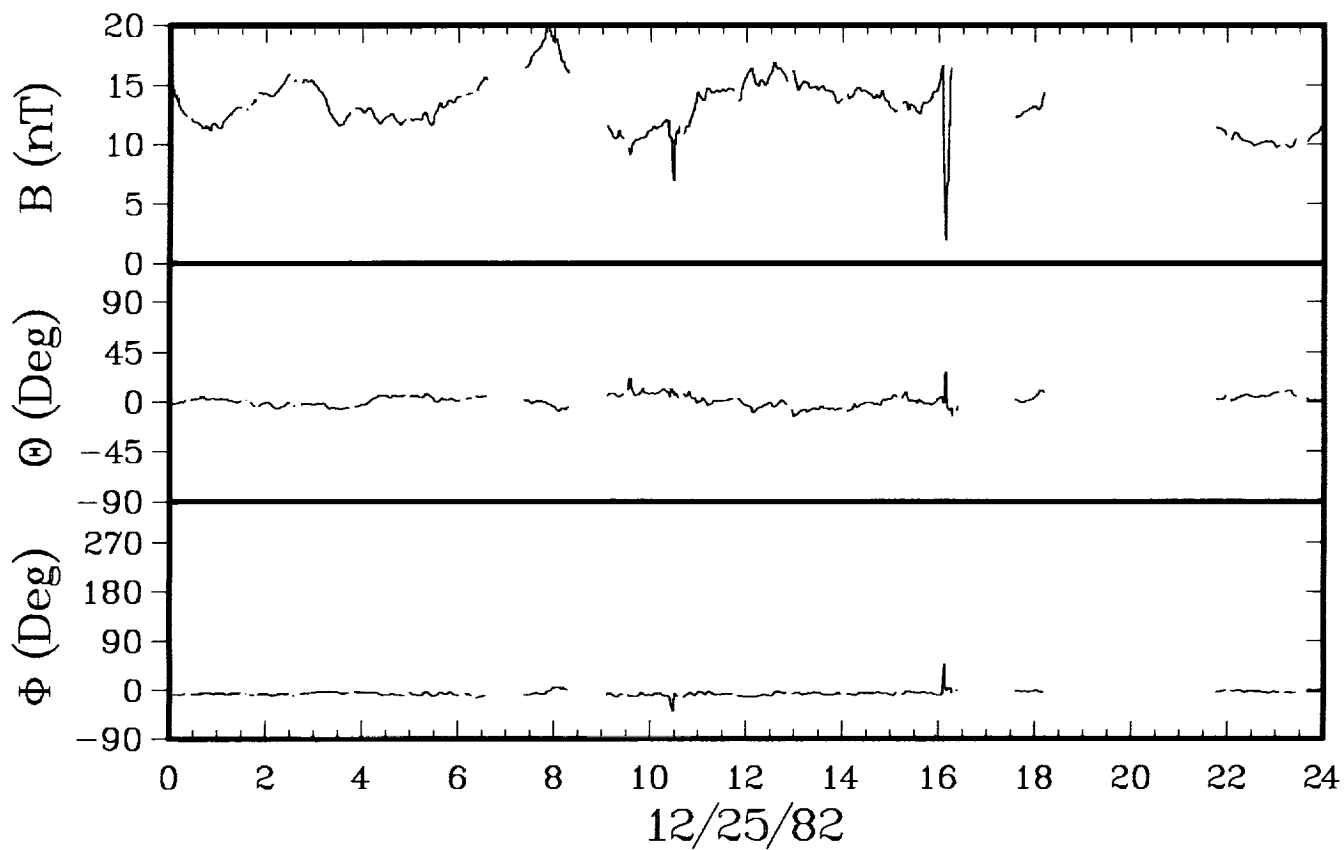
This is the second in a series of volumes covering the period when the ISEE 3 spacecraft was within and near the earth's magnetic tail. This volume shows plots of ISEE 3 magnetic field data and is particularly meant to accompany volume 1 showing ISEE 3 plasma measurements and spacecraft trajectory.

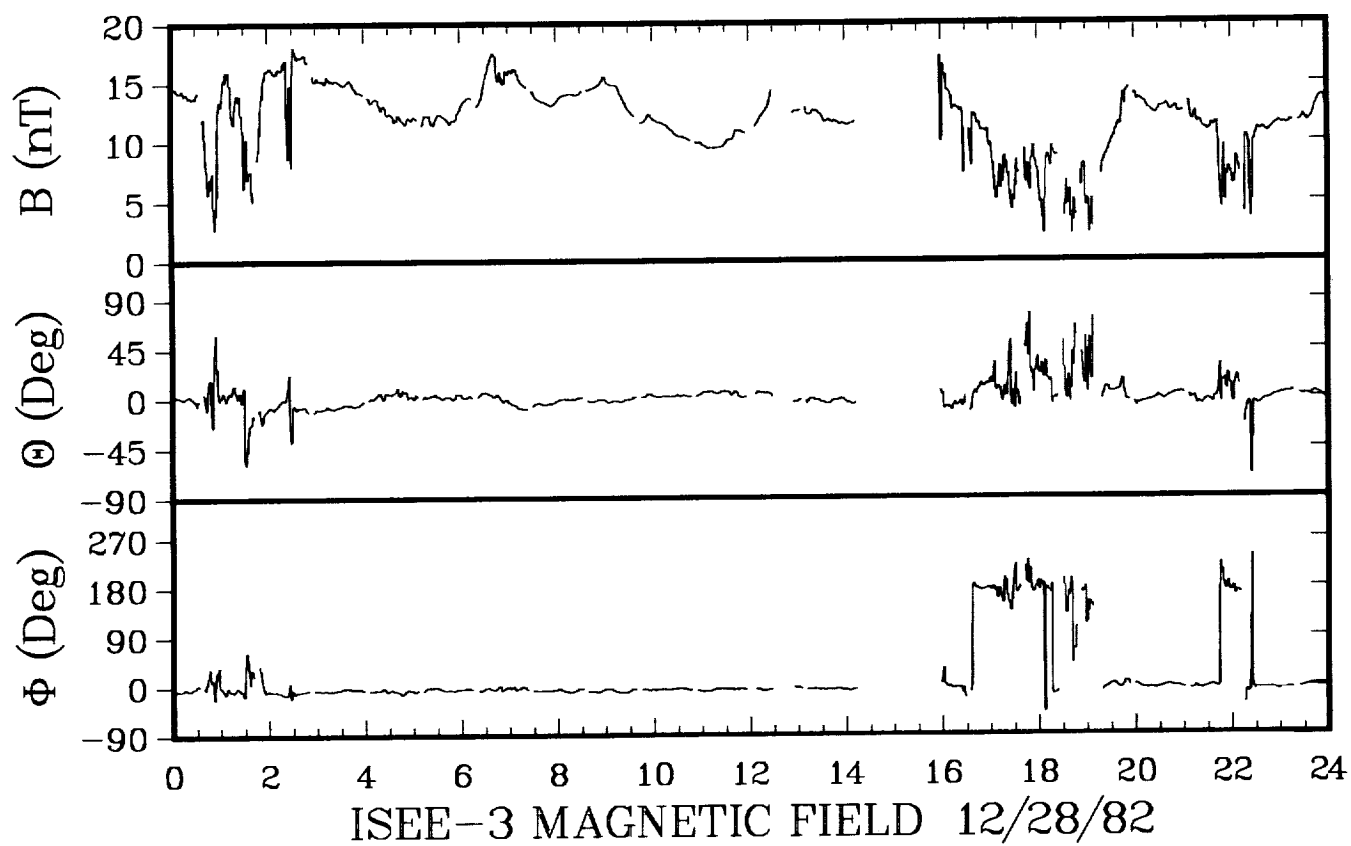
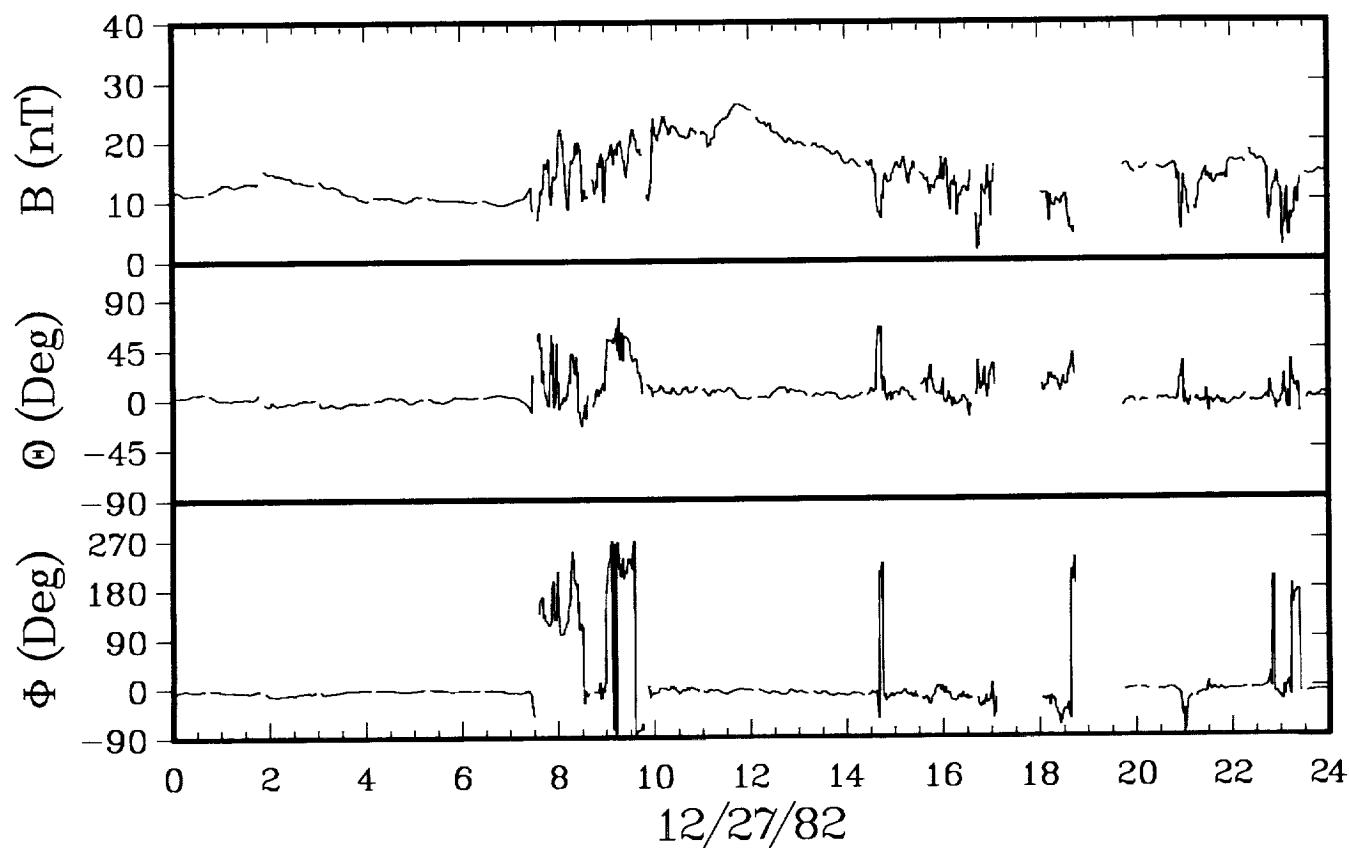
The plots in this volume showing observations from the ISEE-3 vector helium magnetometer experiment (Frandsen et al., IEEE Trans. Geosci. Electr., GE-16, p 195, 1978; E. J. Smith JPL Principal Investigator) were produced from a tape of merged plasma/magnetic field data. The magnetometer produced six vector measurements/sec that were subsequently averaged over one minute intervals before merging with plasma data. Merging was accomplished by associating the nearest 1 minute field average with each plasma sample. When plasma data occur every 84 seconds (see volume 1) an occasional one-minute field average will be missing; when plasma data occur every 12 seconds, identical field values will often occur in successive records. Data presented here are the field magnitude and polar and azimuthal angles ψ and ϕ in GSE coordinates where positive ψ is northward and, in contrast to the plasma data, $\phi=0^\circ$ is a sunward directed field vector, $+90^\circ$ is duskward and -90° is dawnward. Two successive days are shown at the top and bottom of each page. Data gaps occur when either magnetic field or plasma (see volume 1) are missing. Thus, in some cases there may actually be magnetic field data available that is not plotted here.

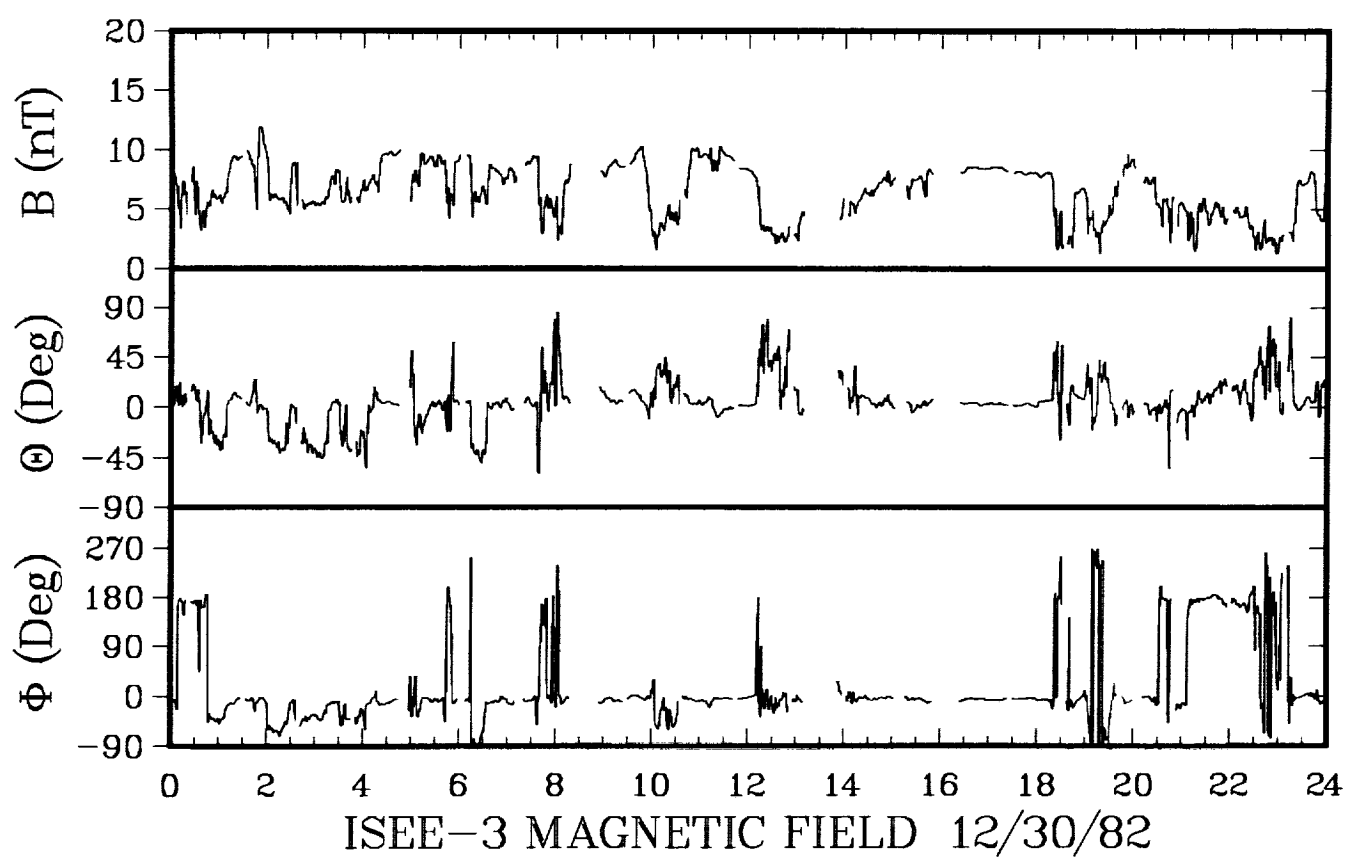
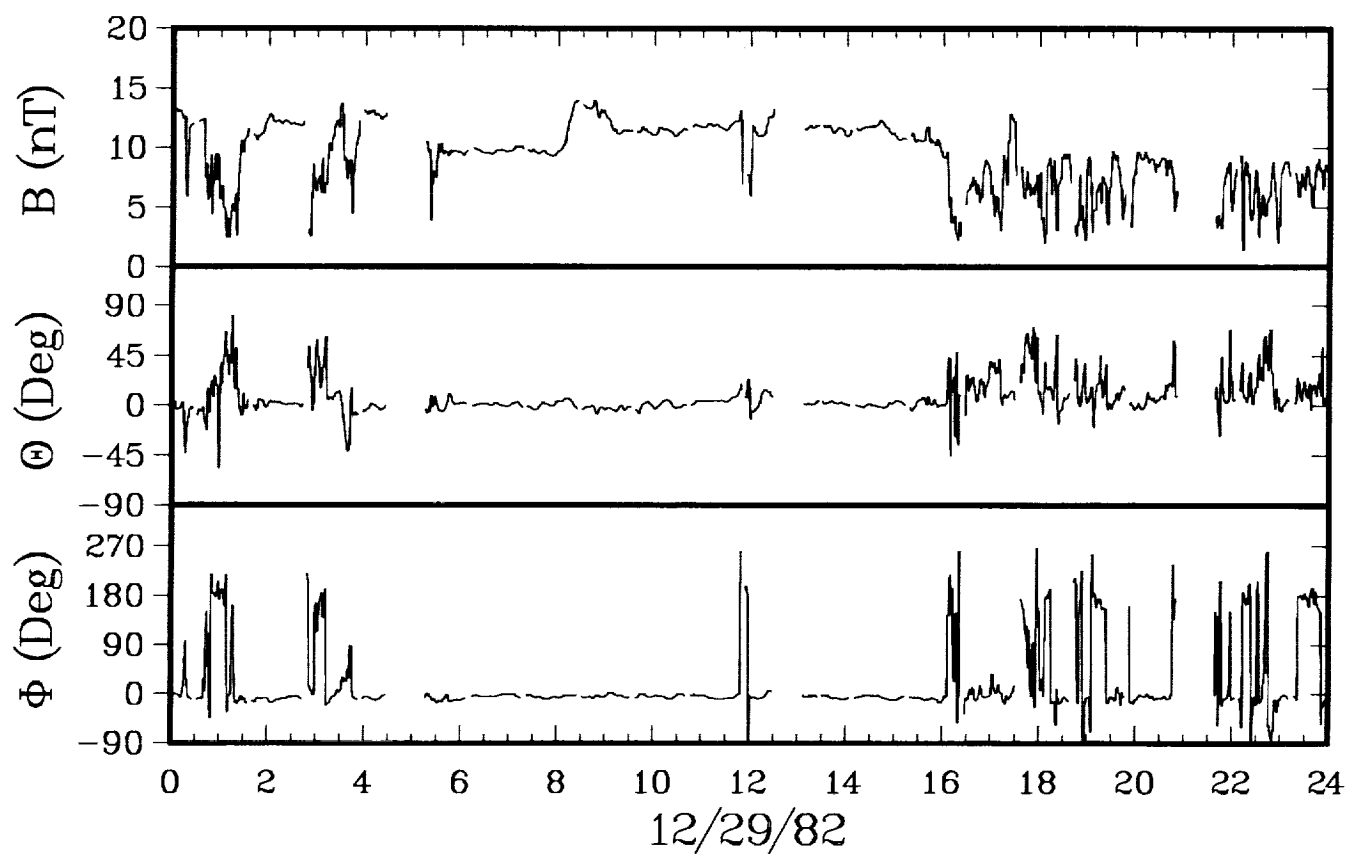
The principal investigator for the ISEE 3 magnetic field experiment, E. J. Smith is gratefully acknowledged for allowing this use of his data. Merged tapes from which these plots were prepared were generated by R. D. Zwickl. Plots were prepared by K. J. Sofaly of LANL. Questions concerning the plots (or requests for magnetic field data) should be addressed to E. J. Smith, MS-169-506, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109; Phone 818-354-2248; Span JPLSP::ESMITH.

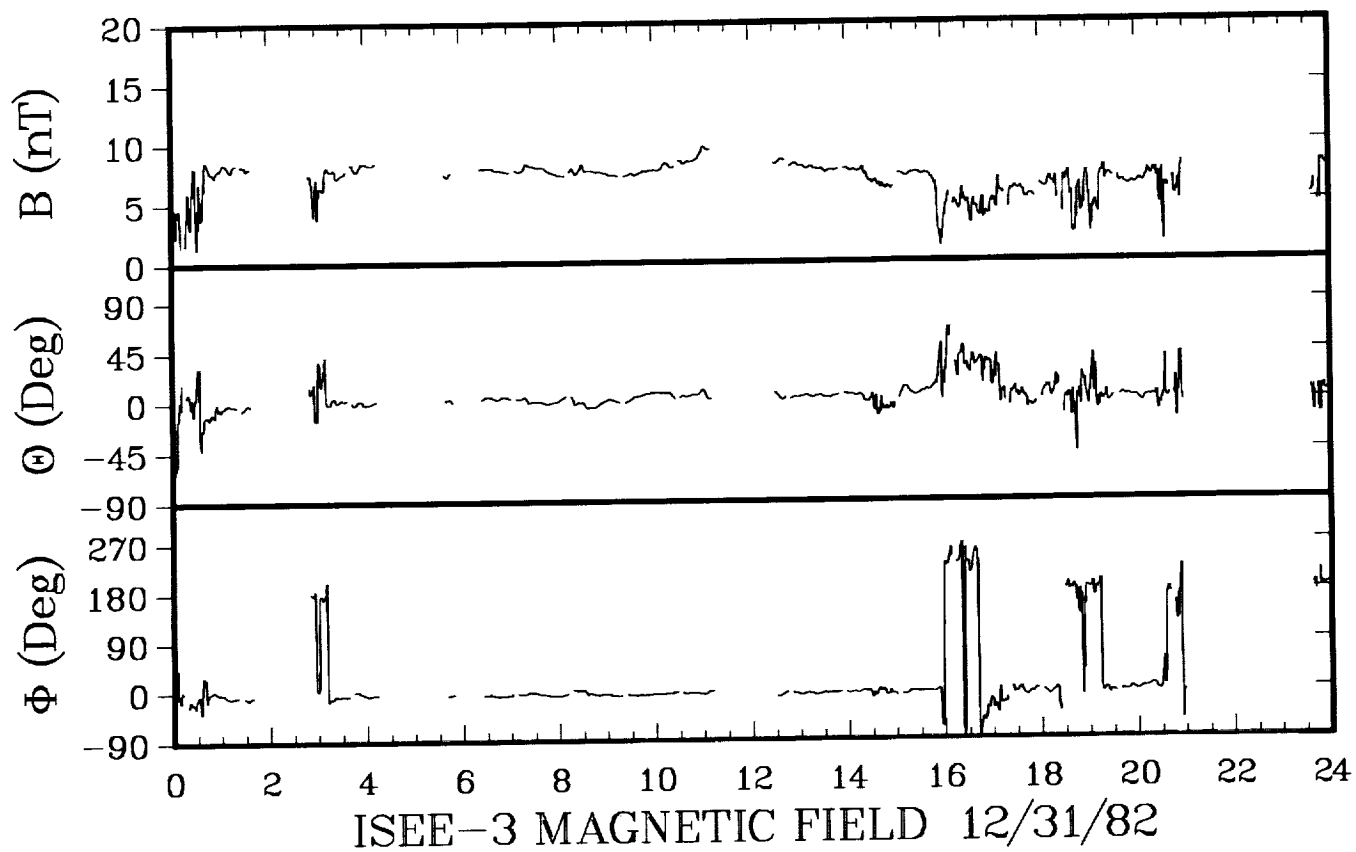


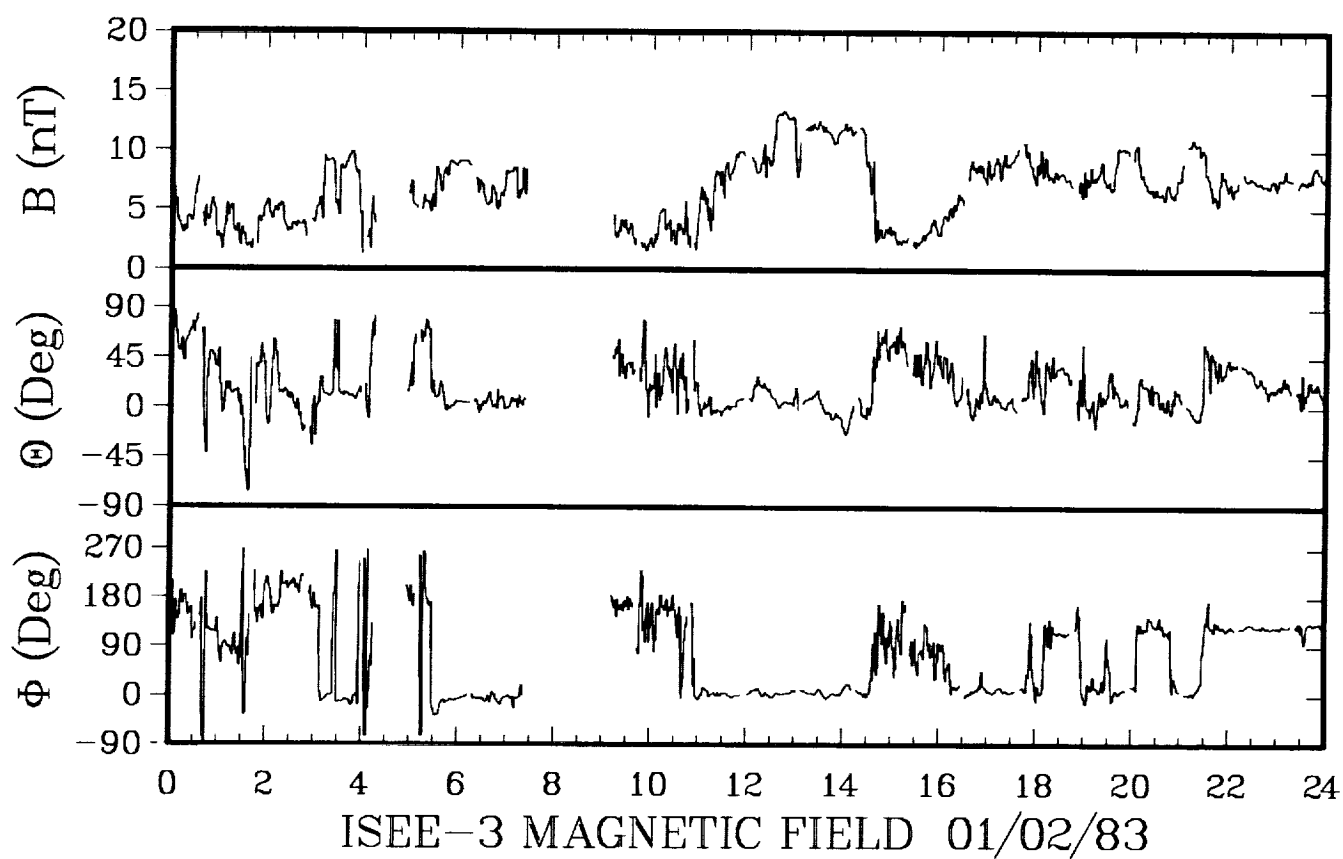
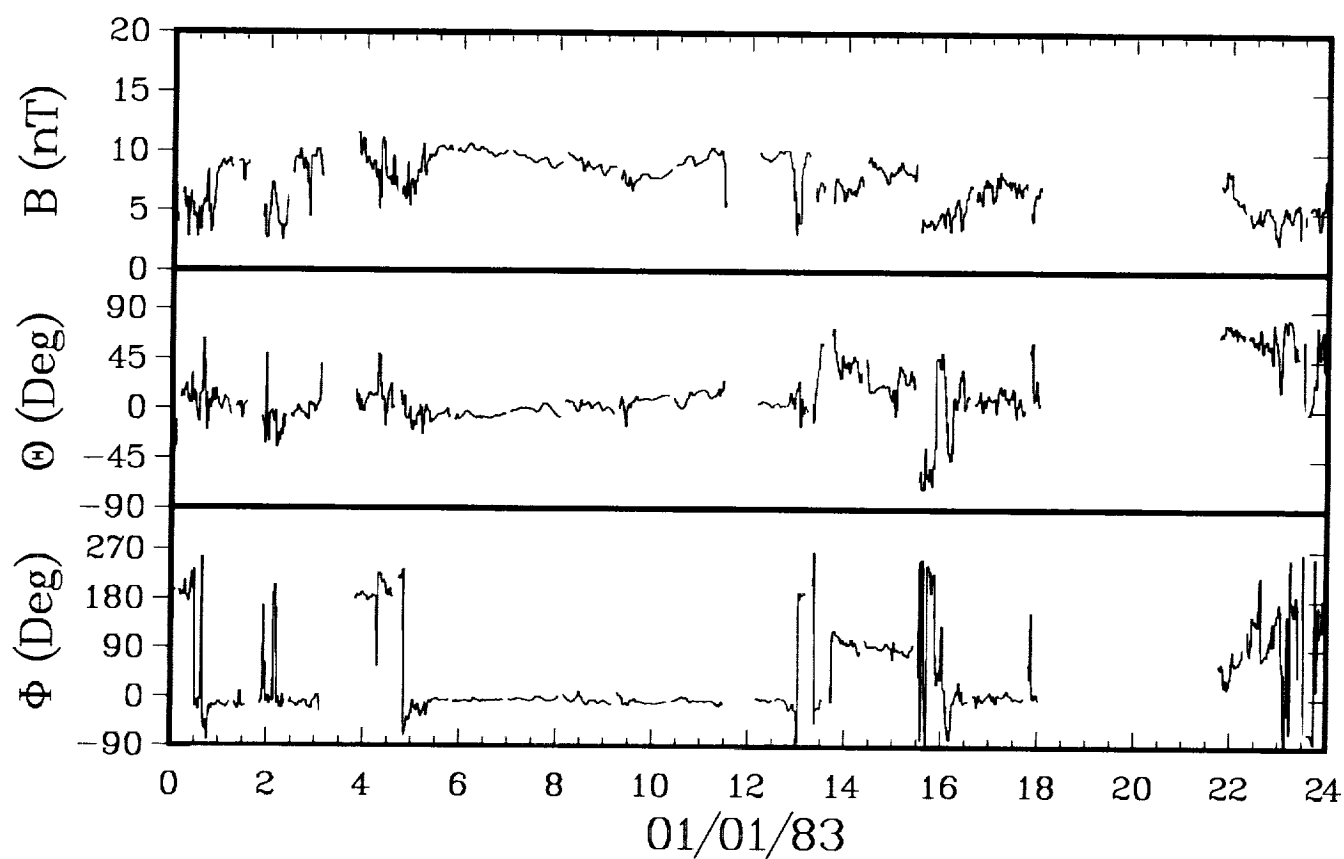


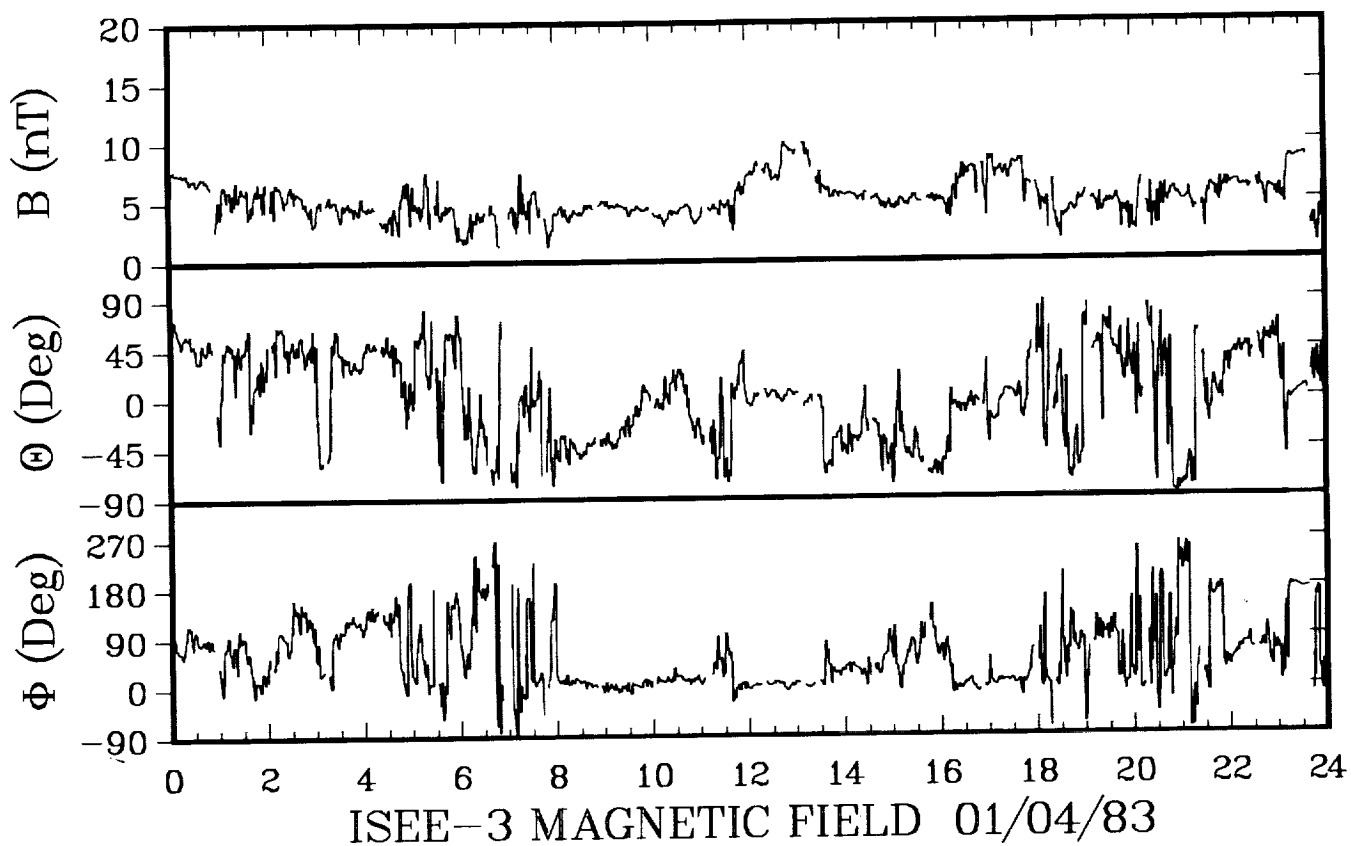
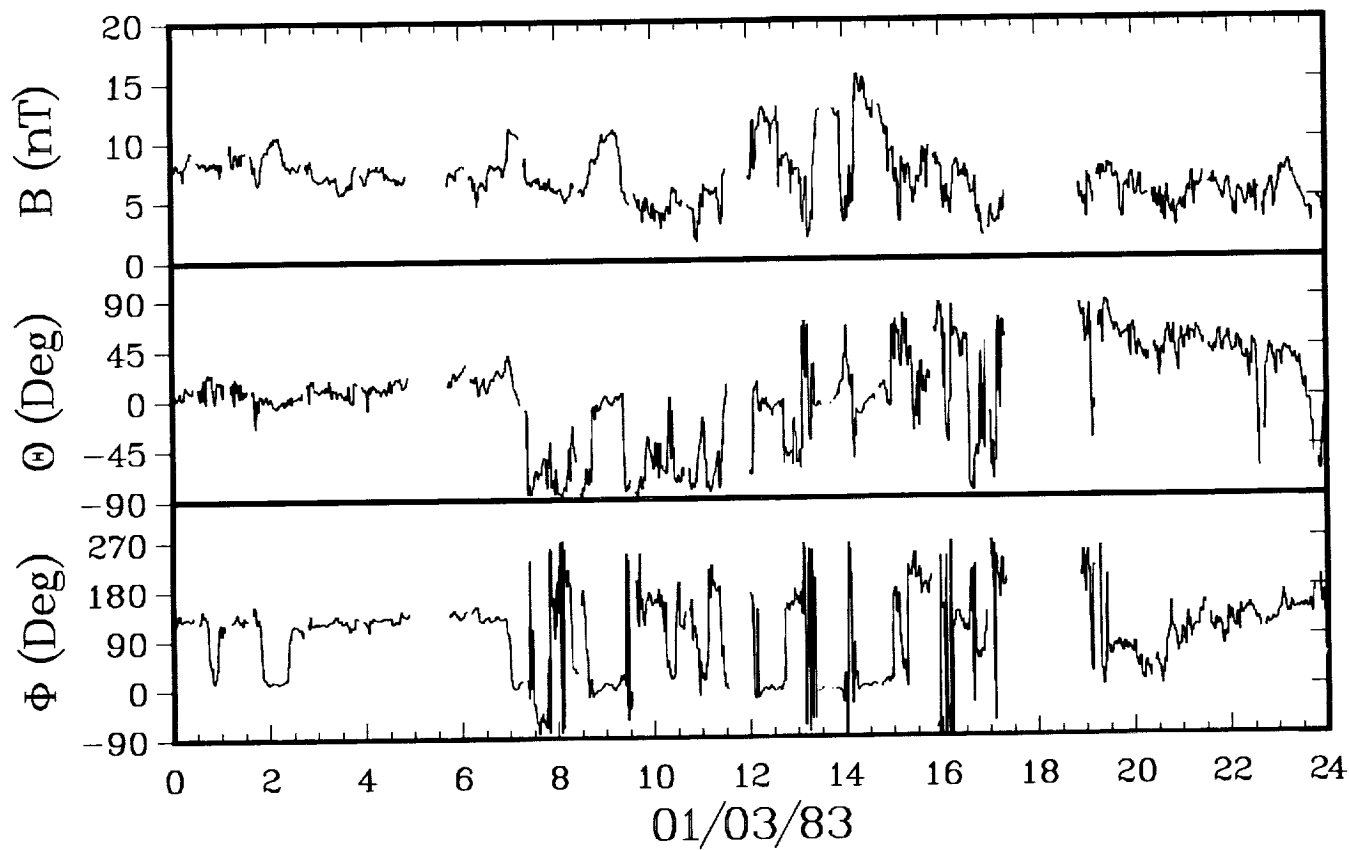


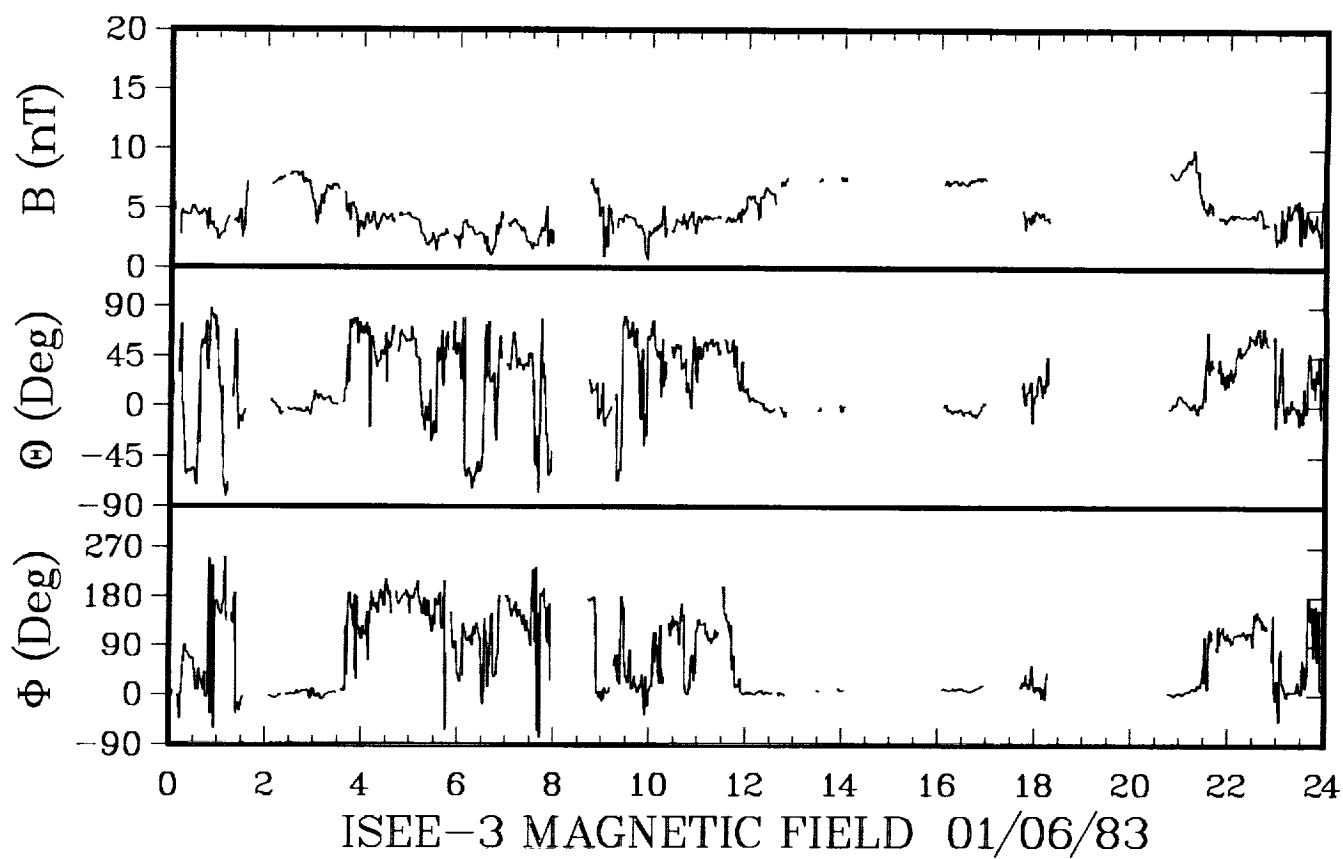
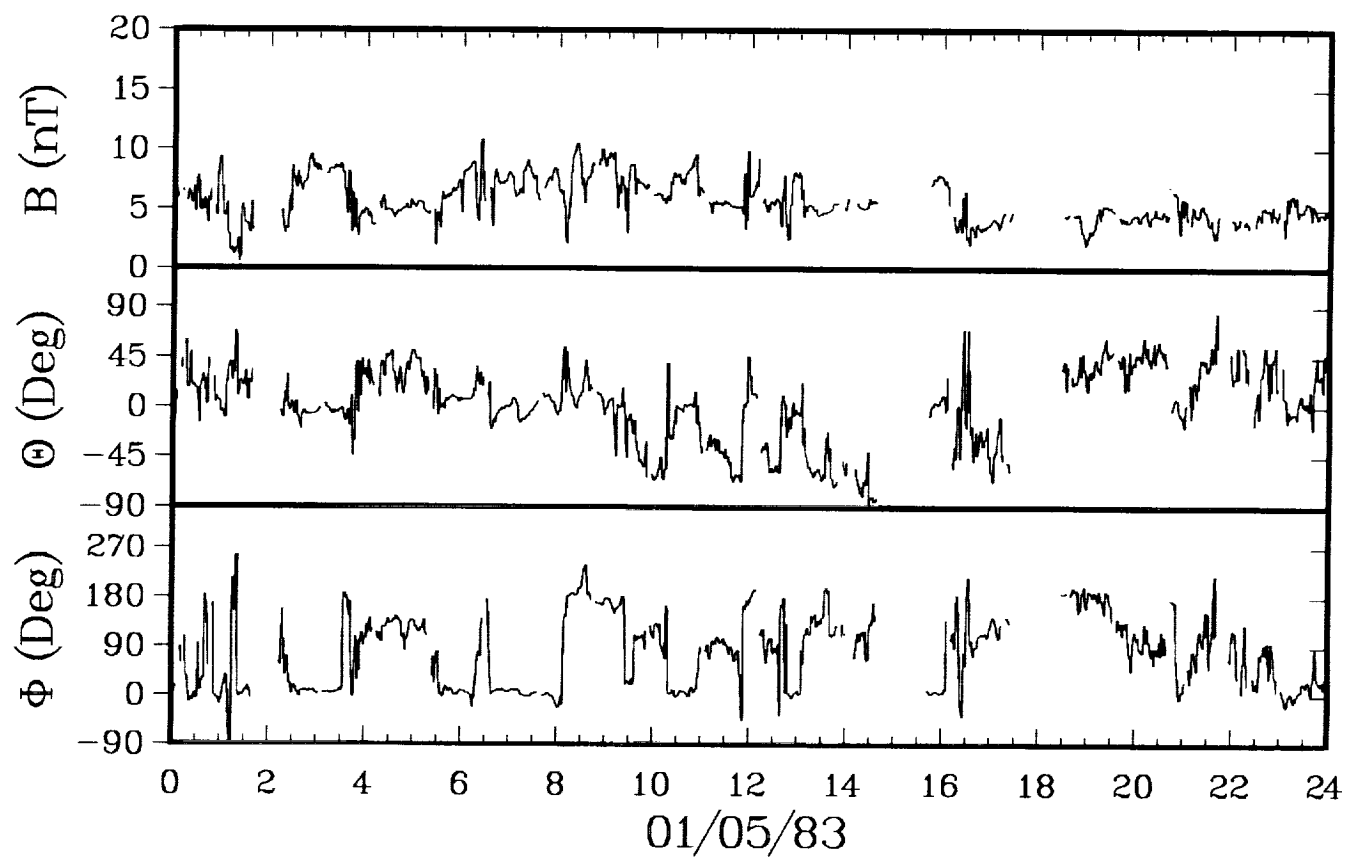


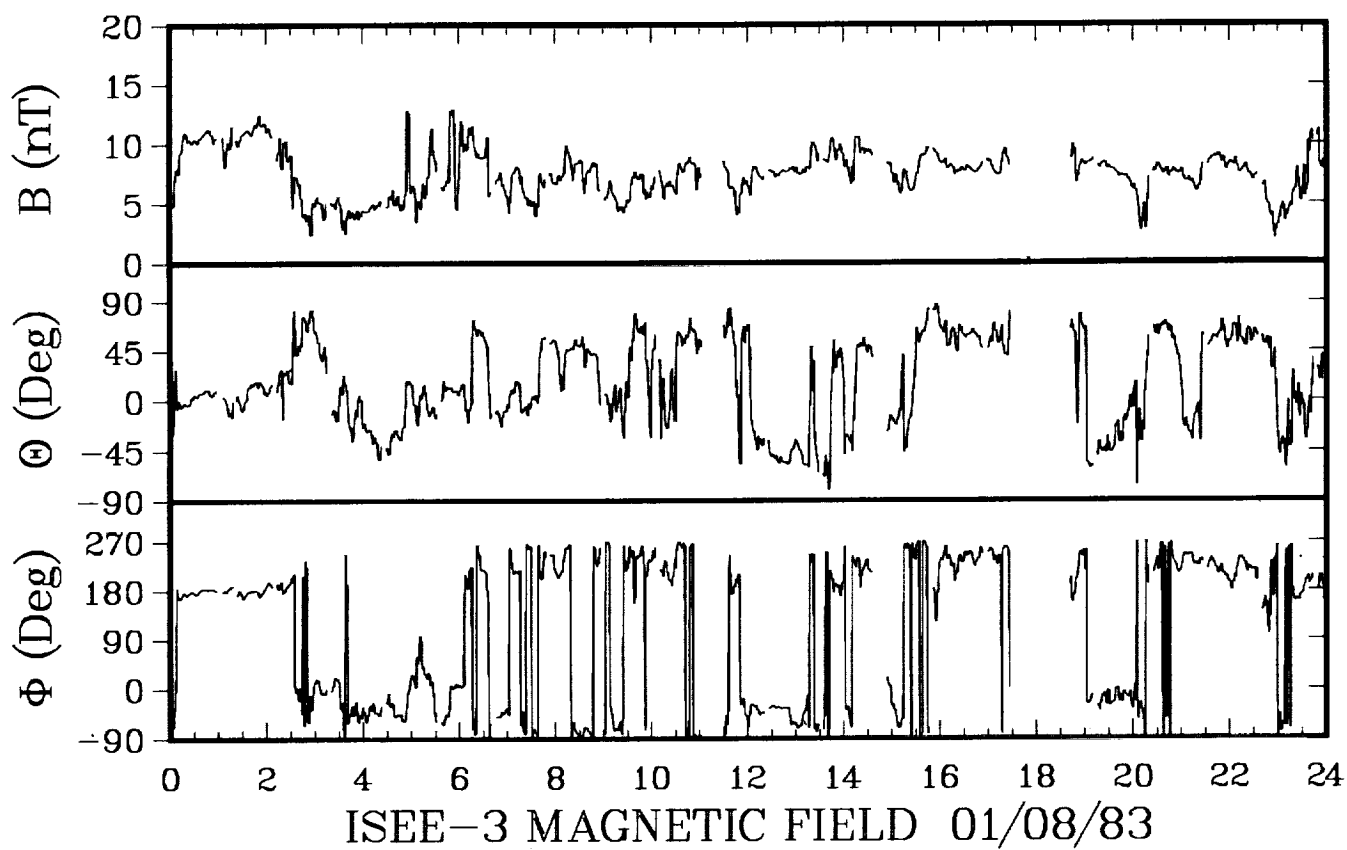
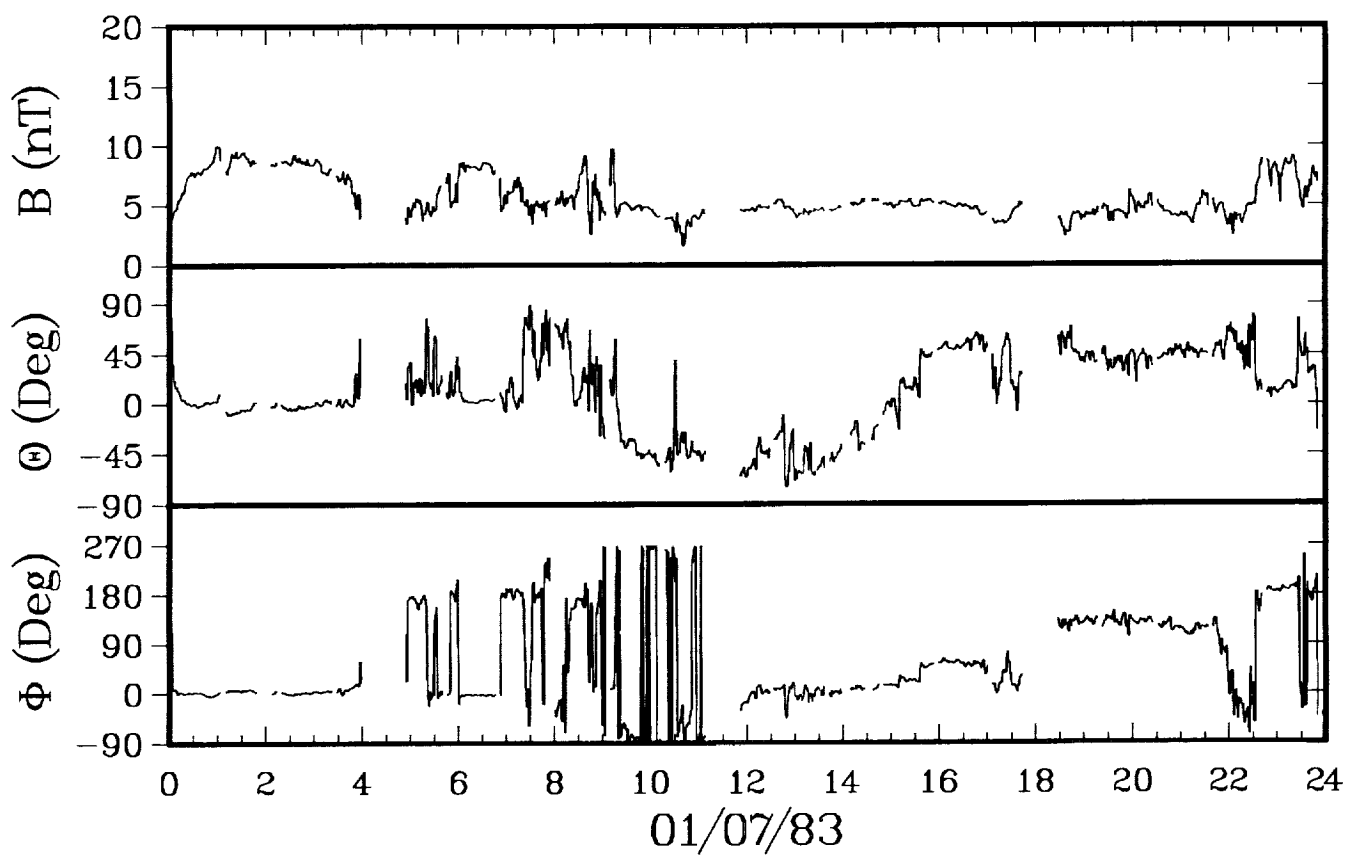


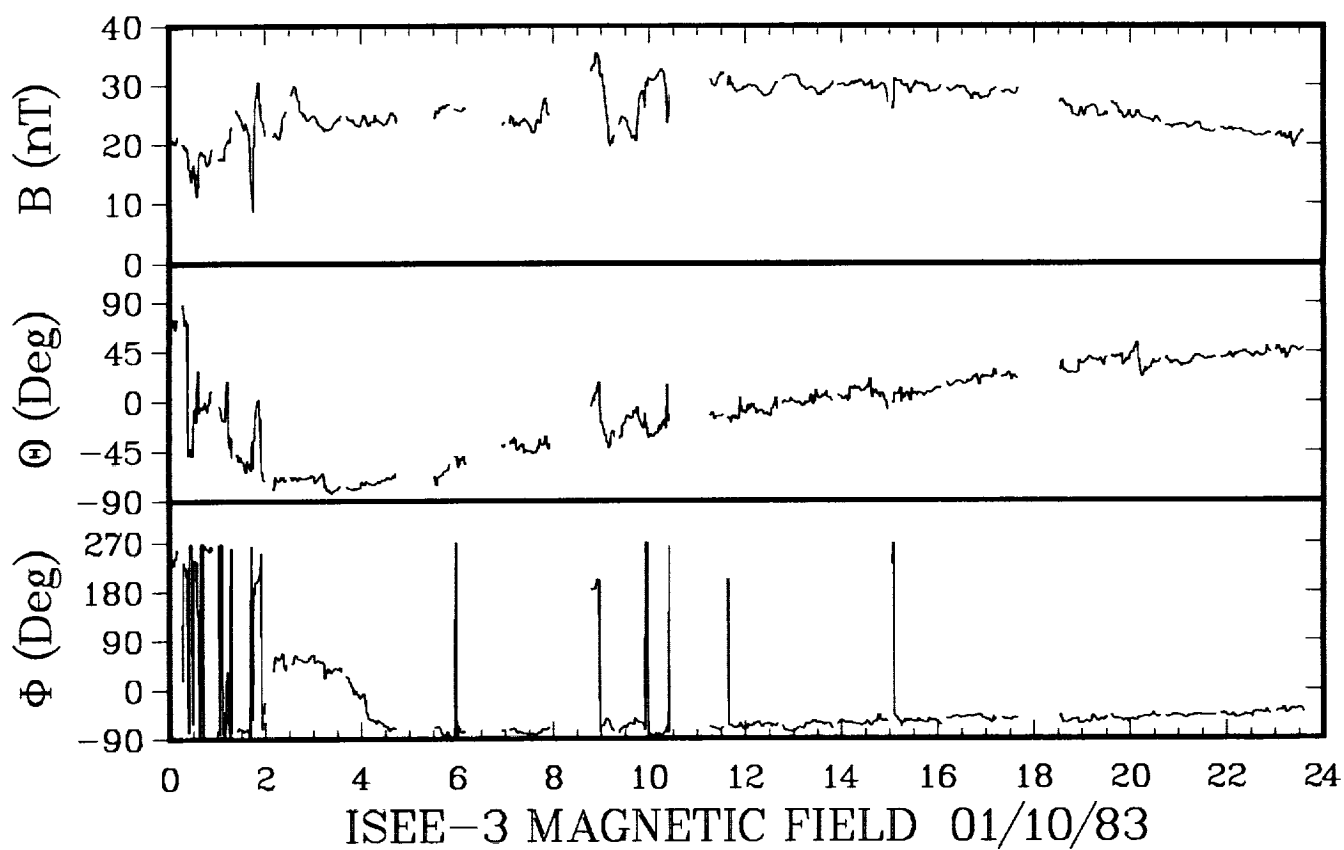
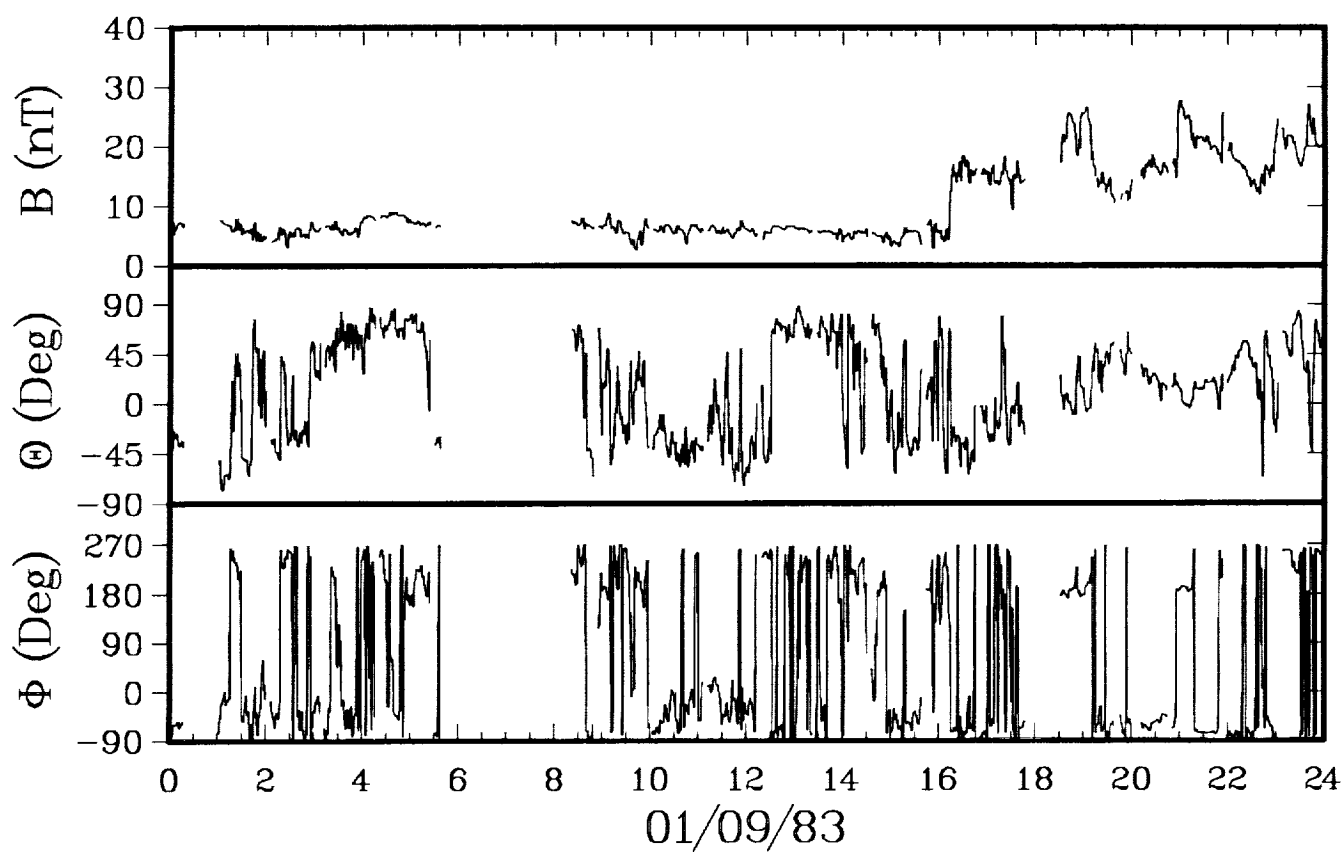


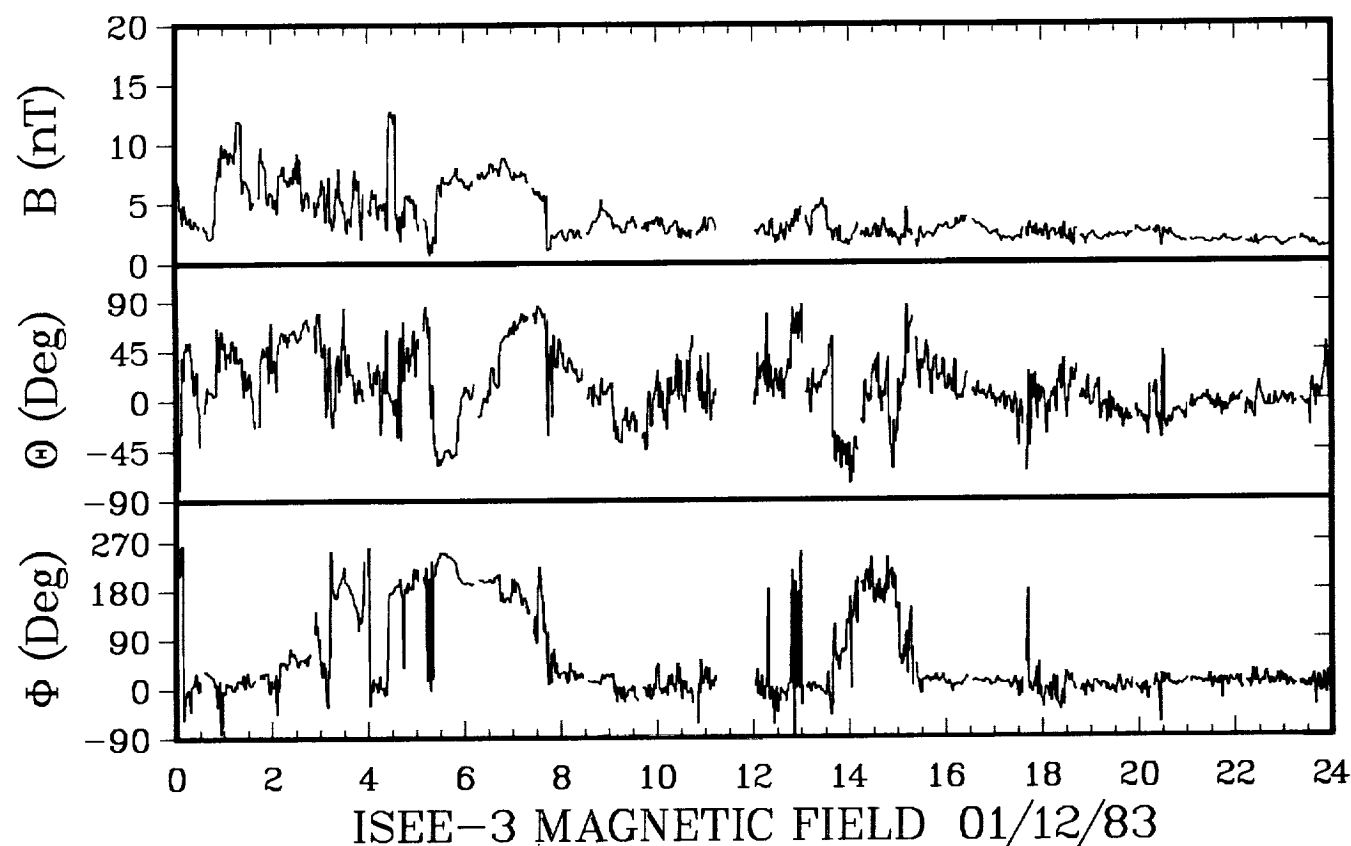
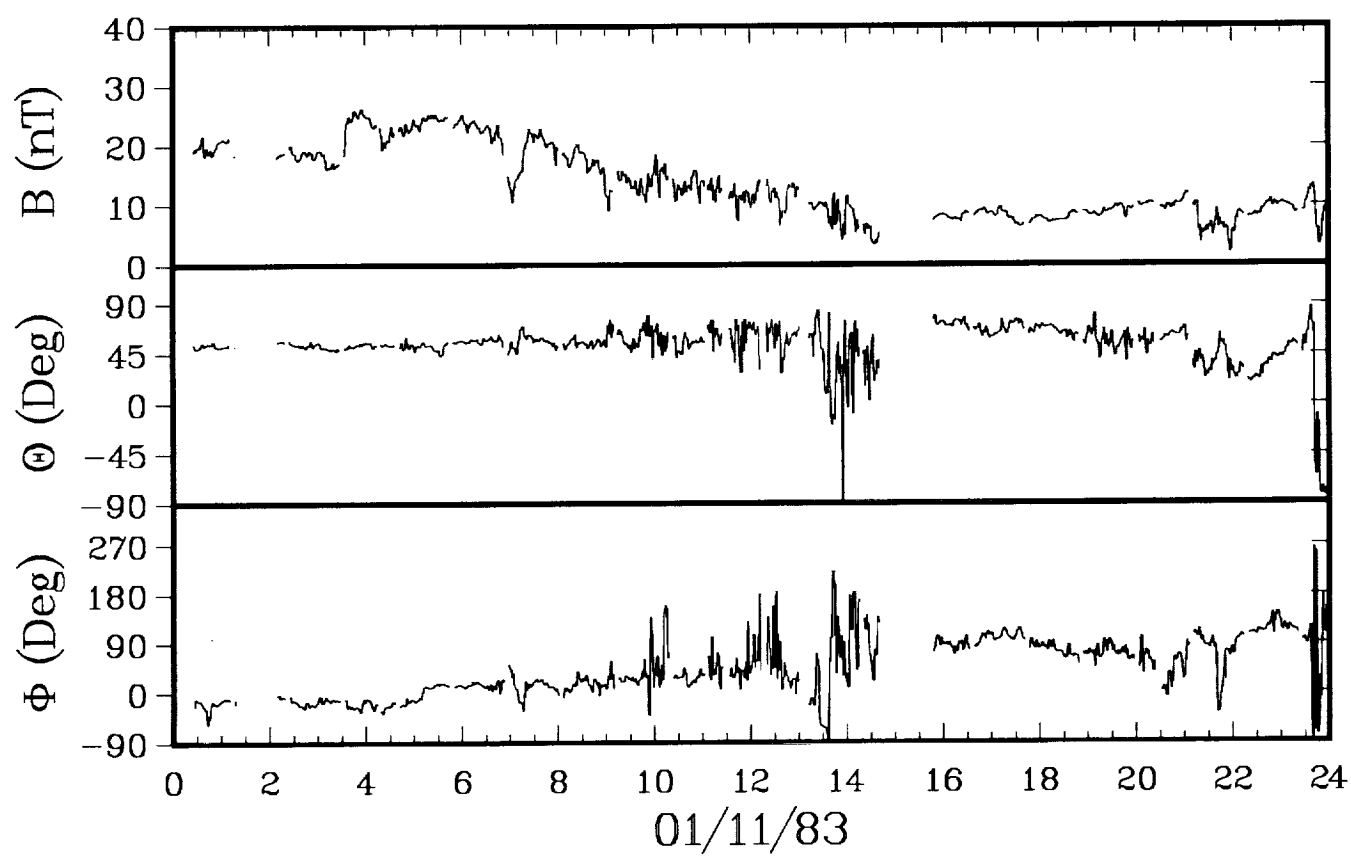


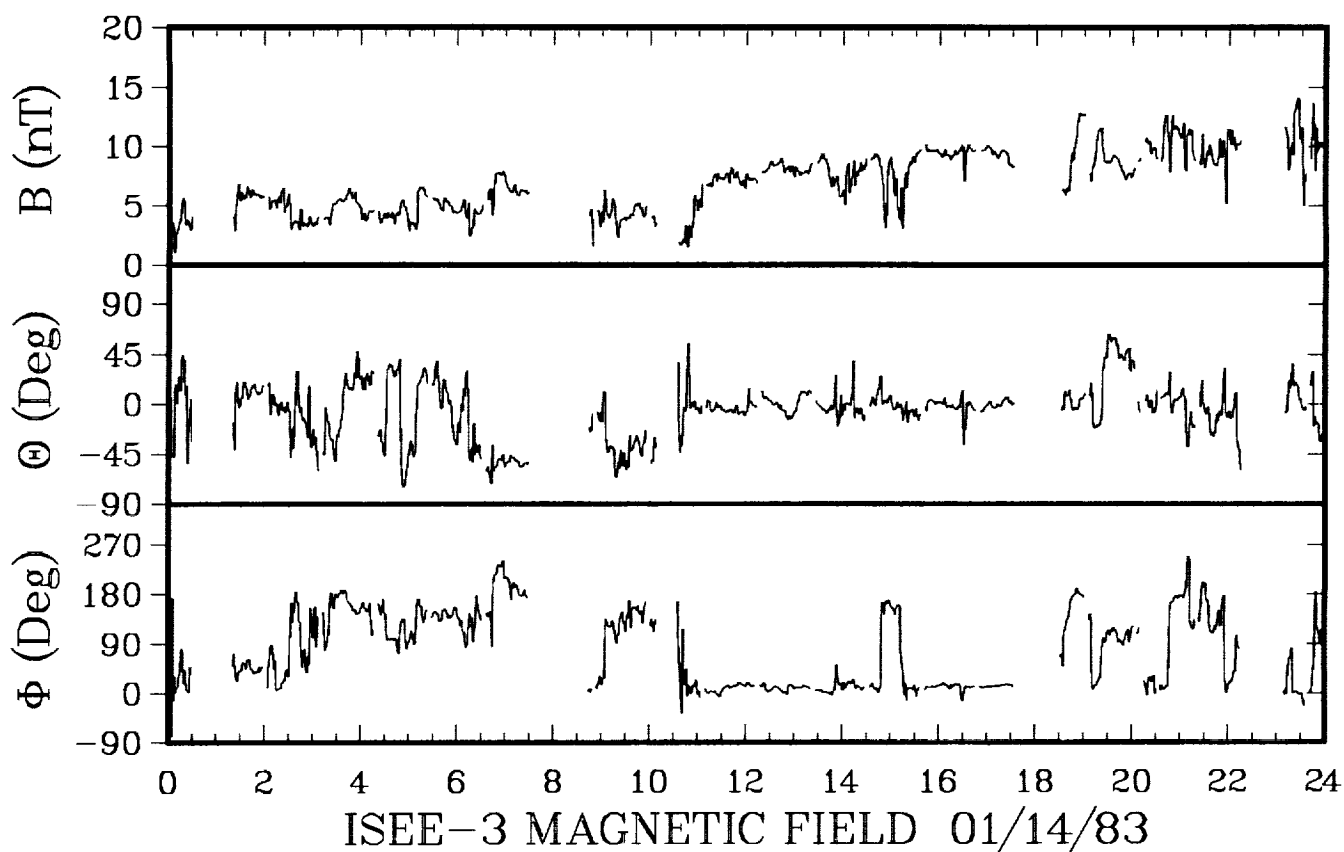
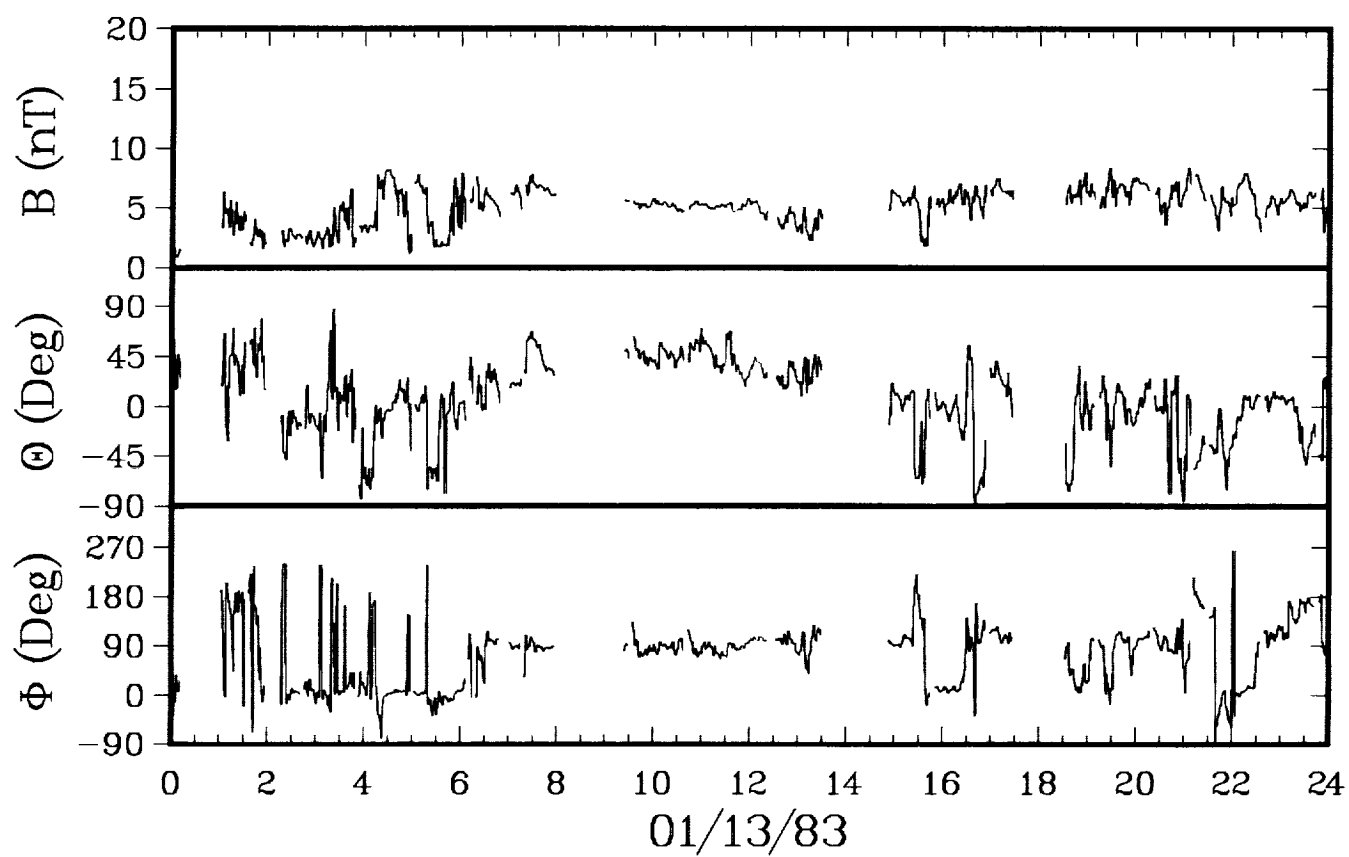


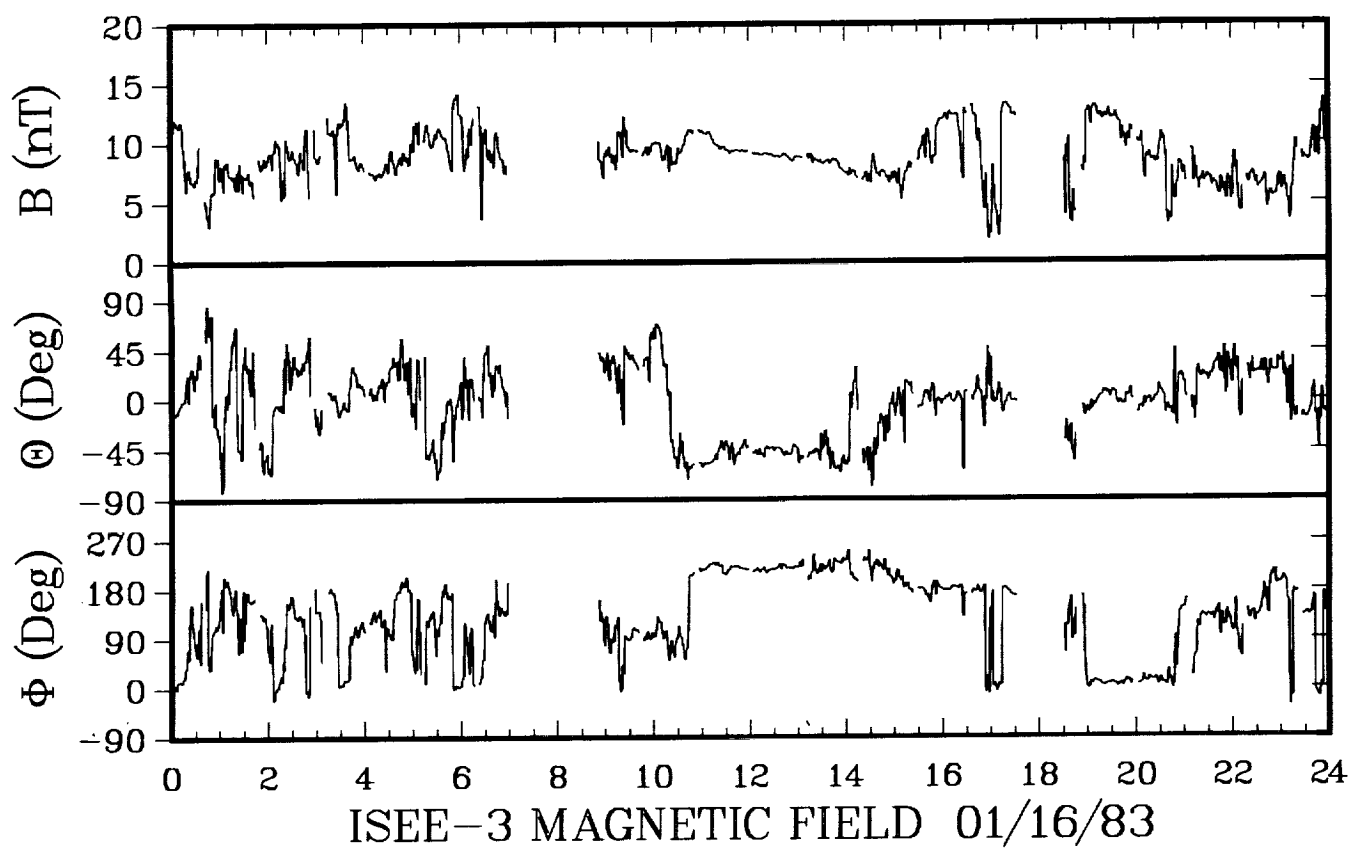
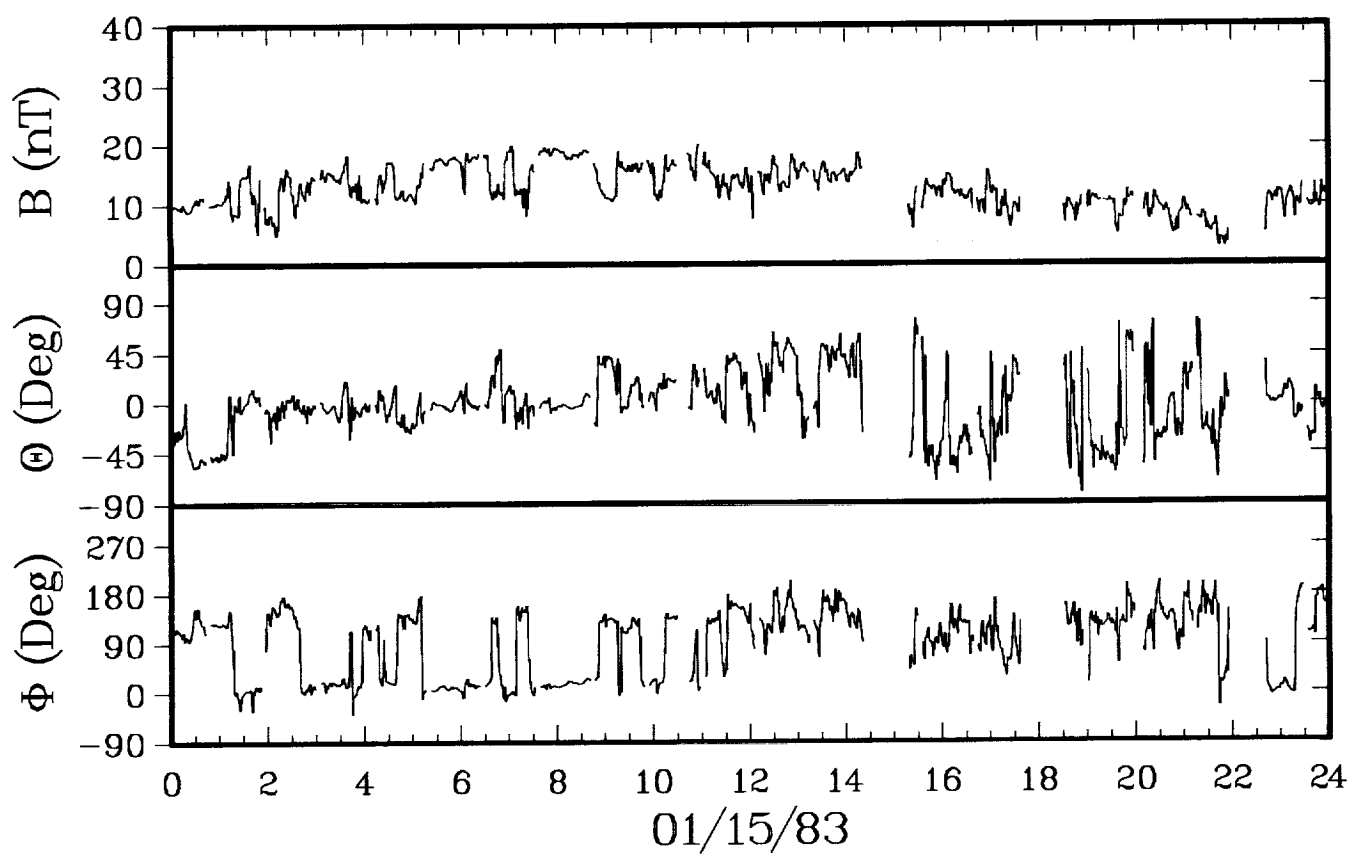


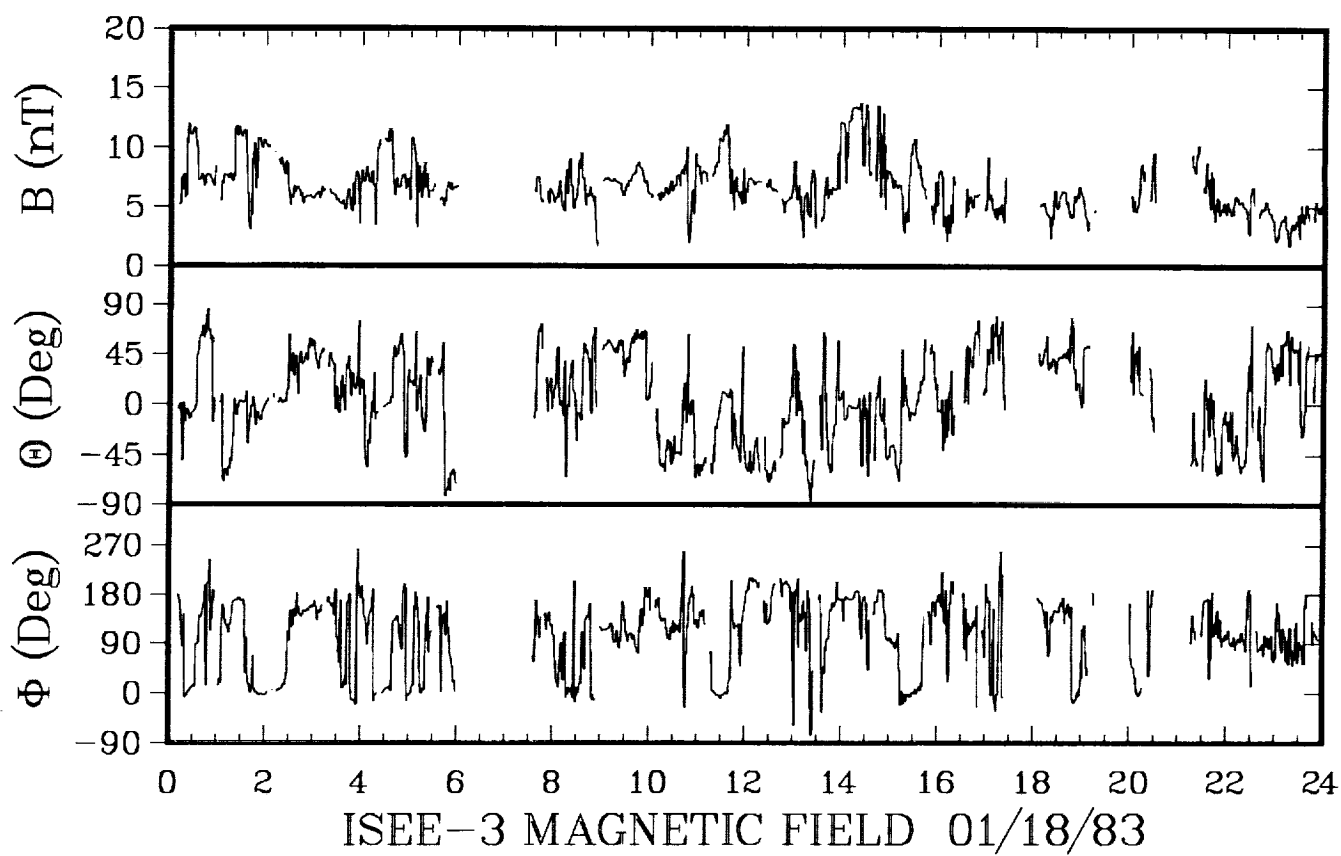
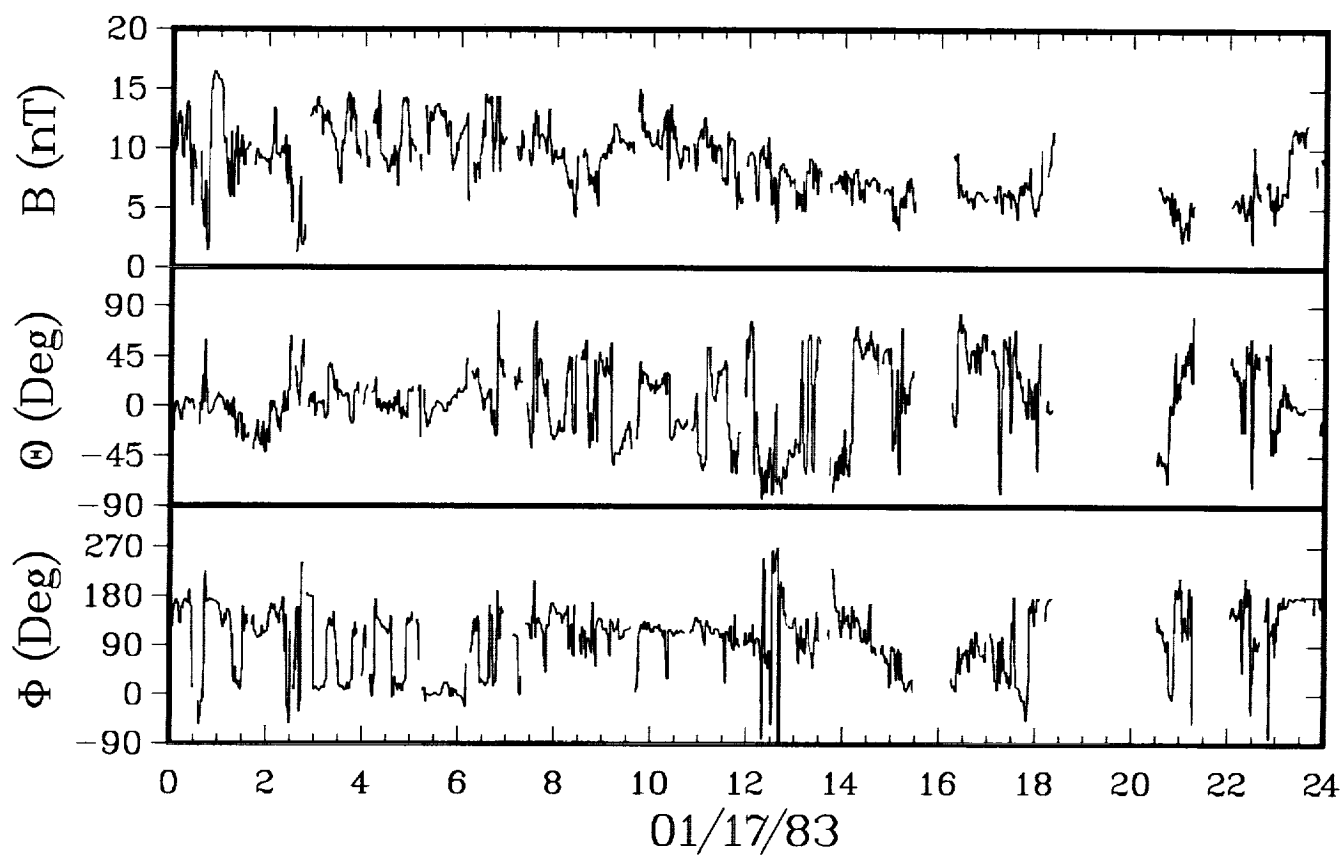


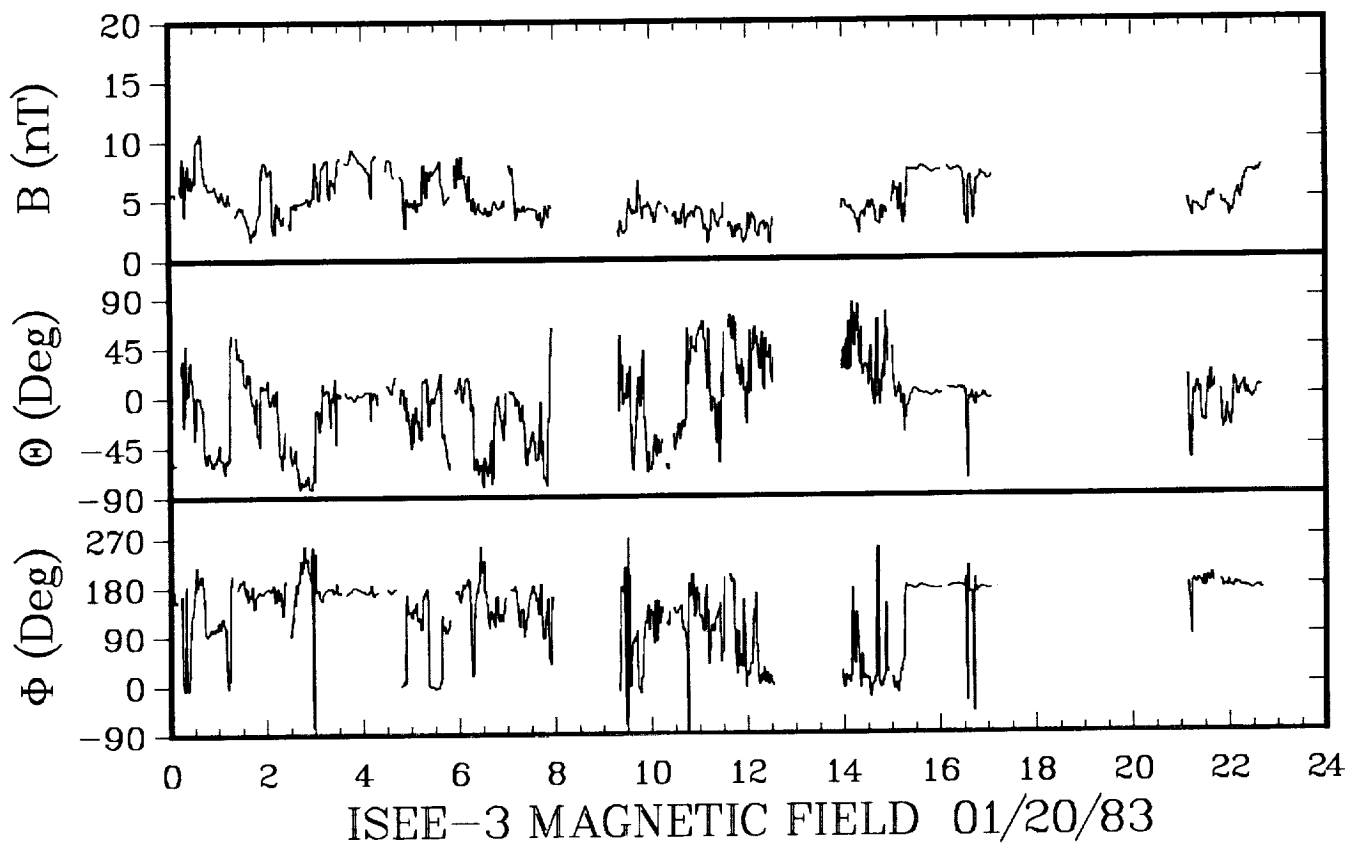
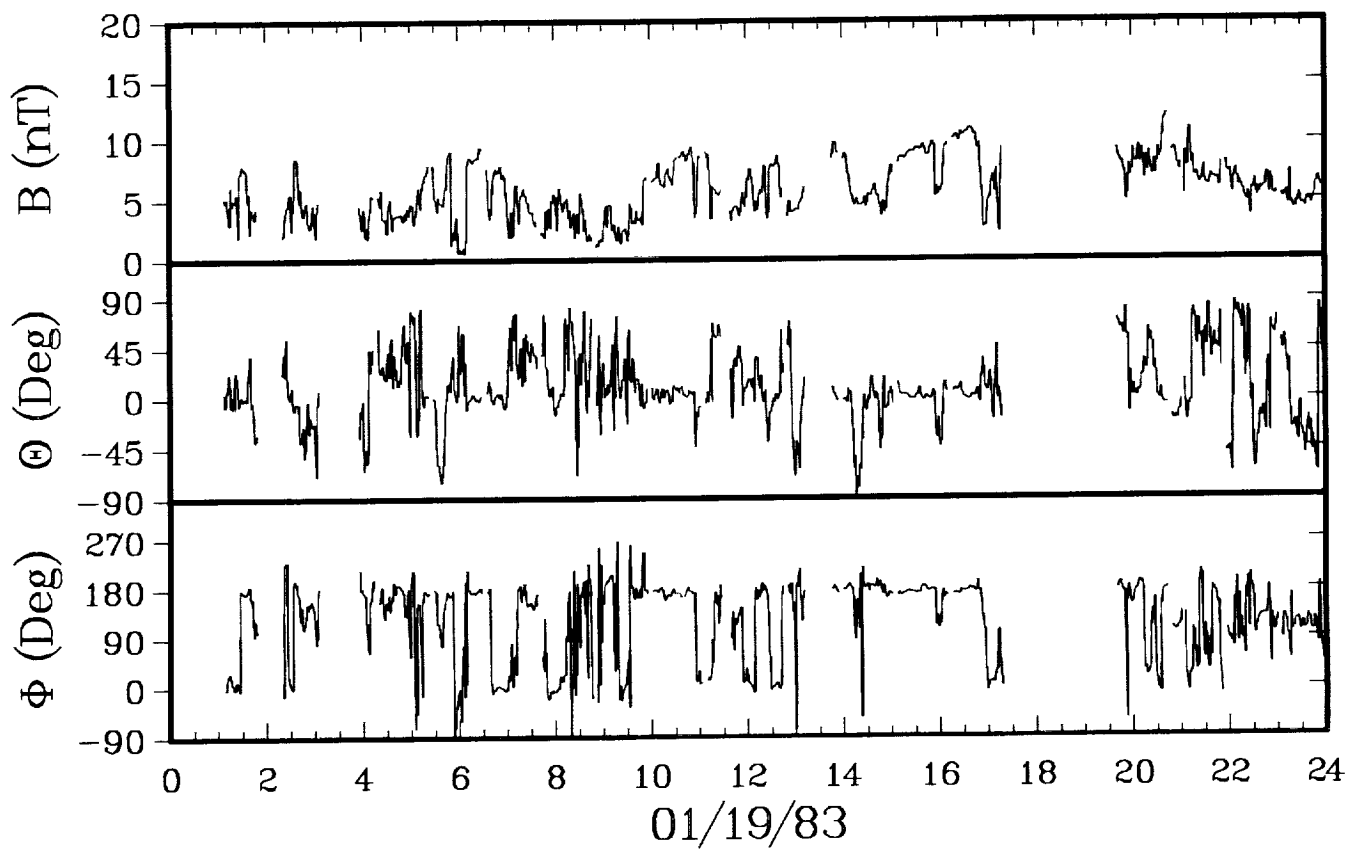


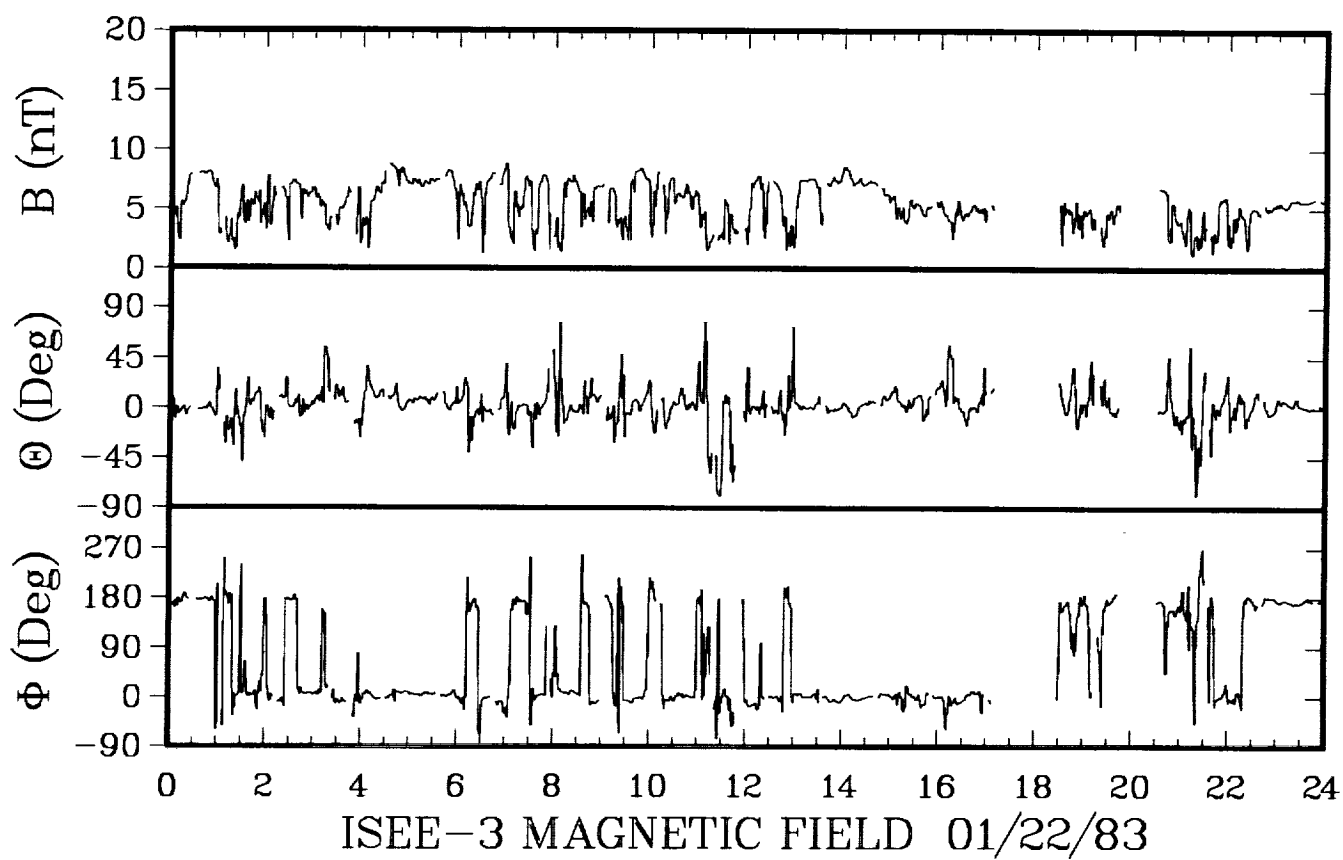
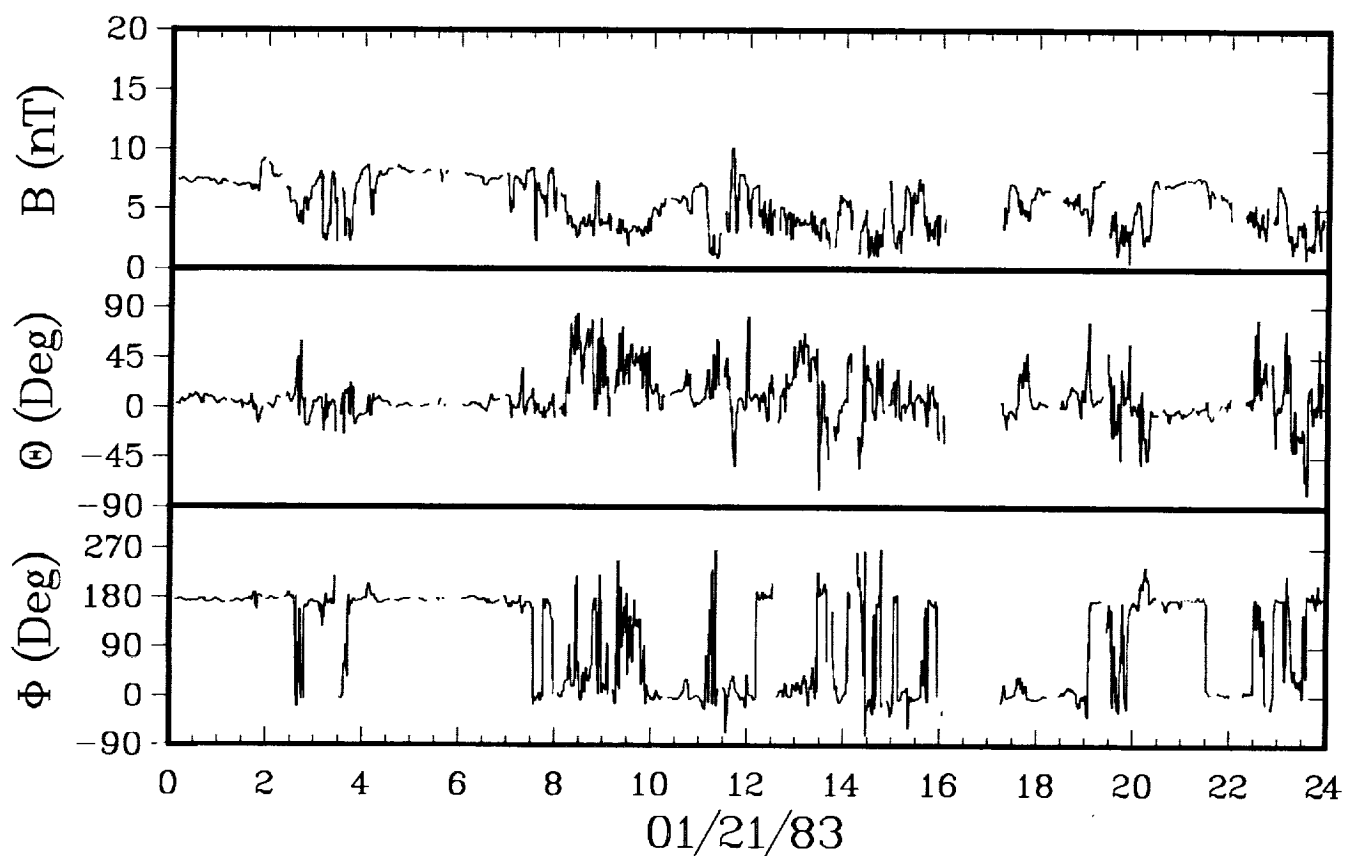


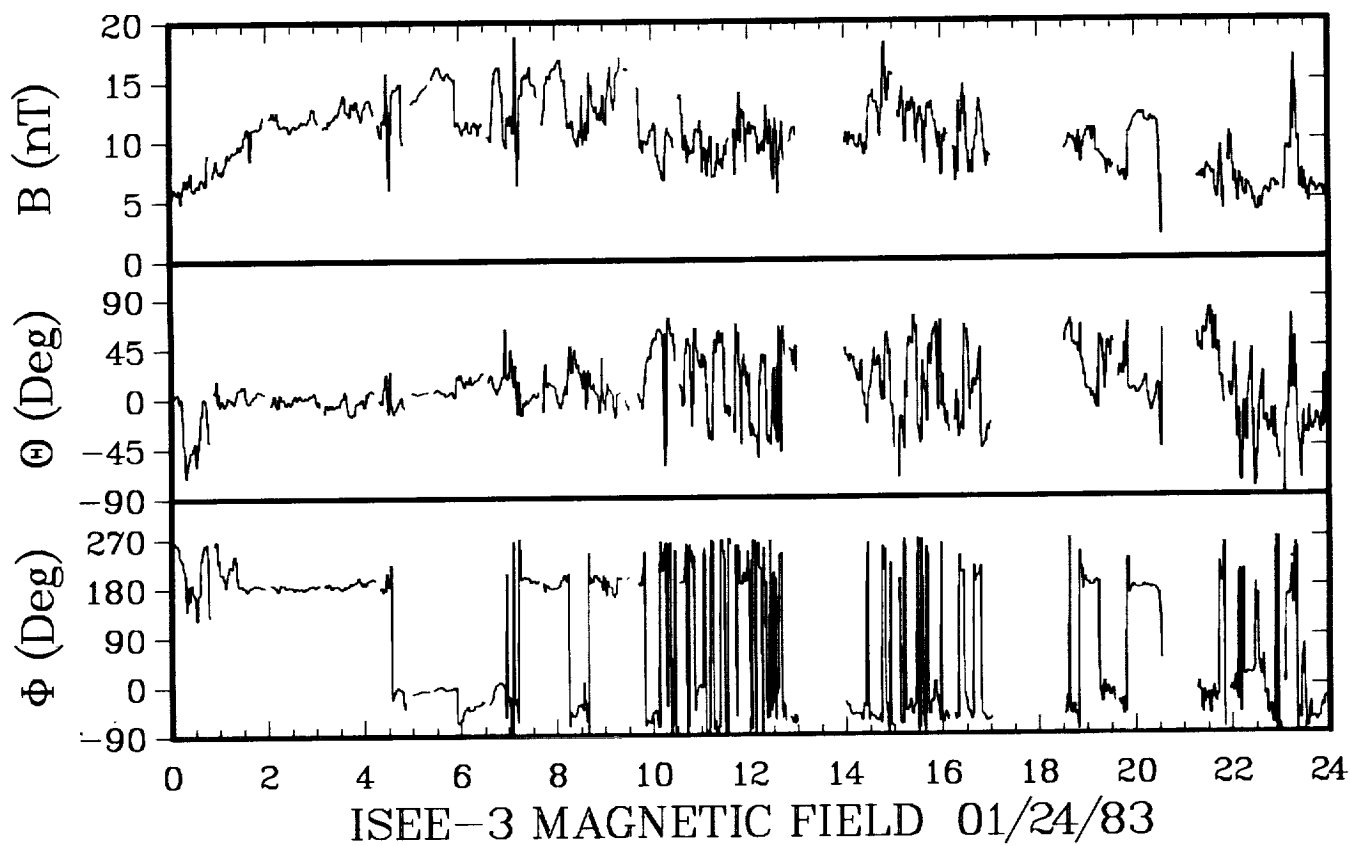
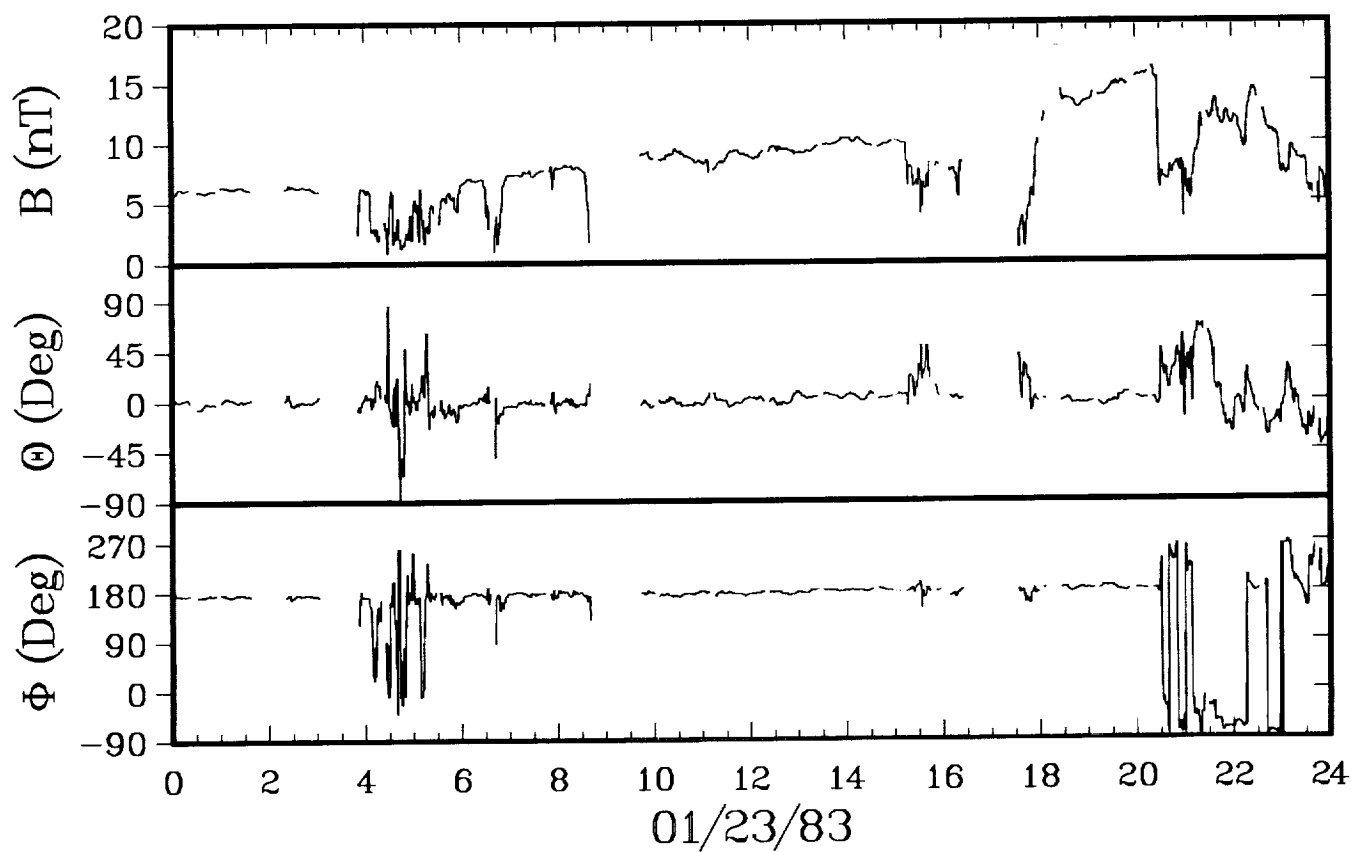


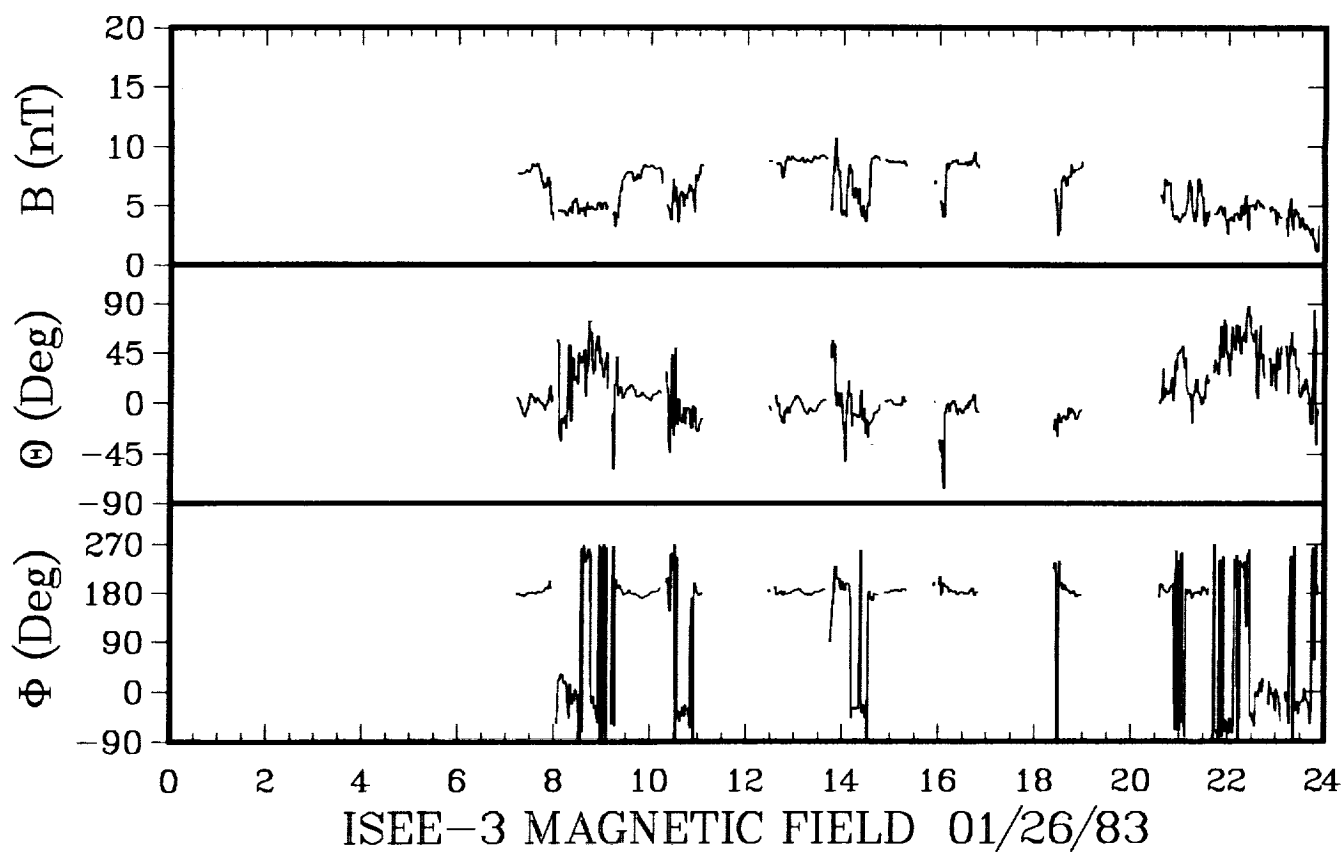
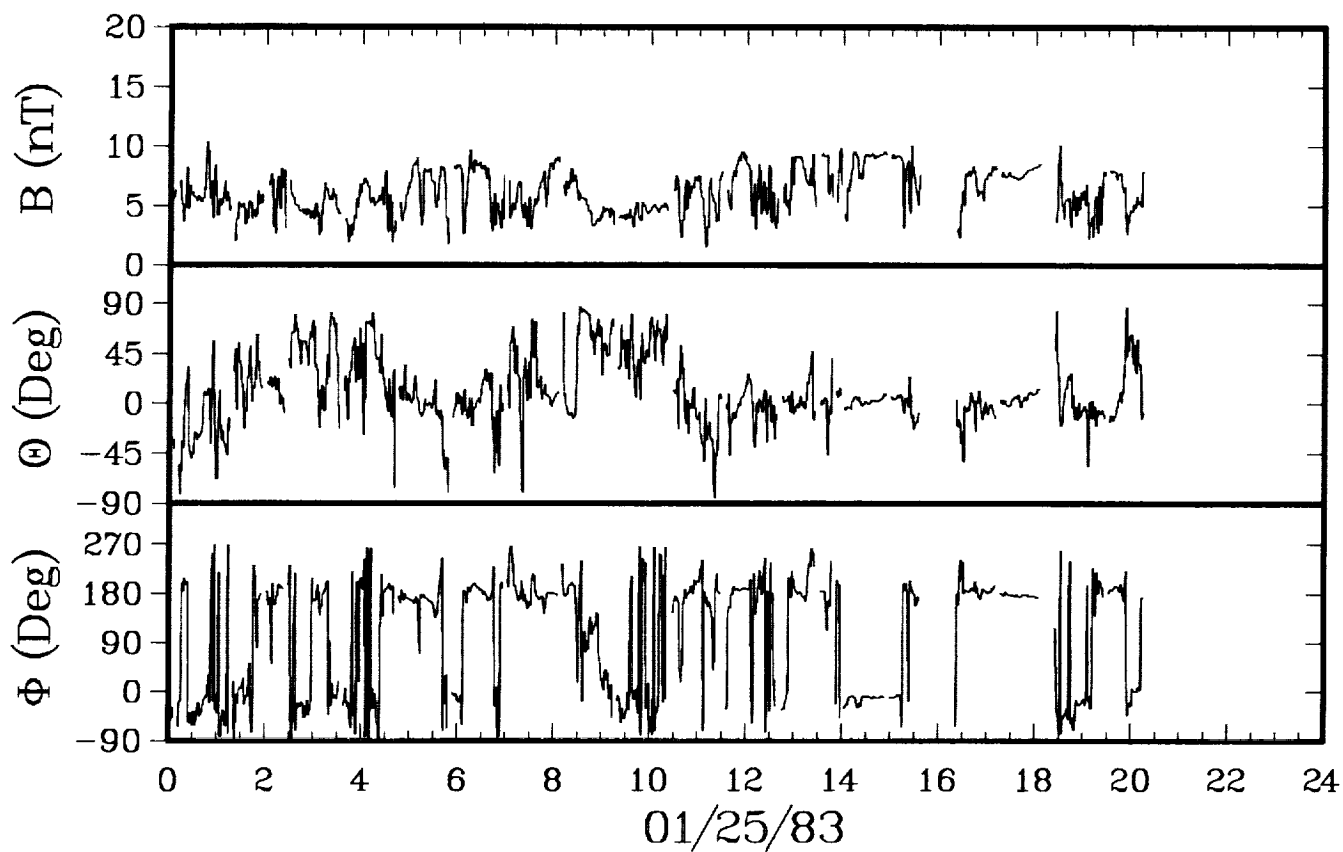


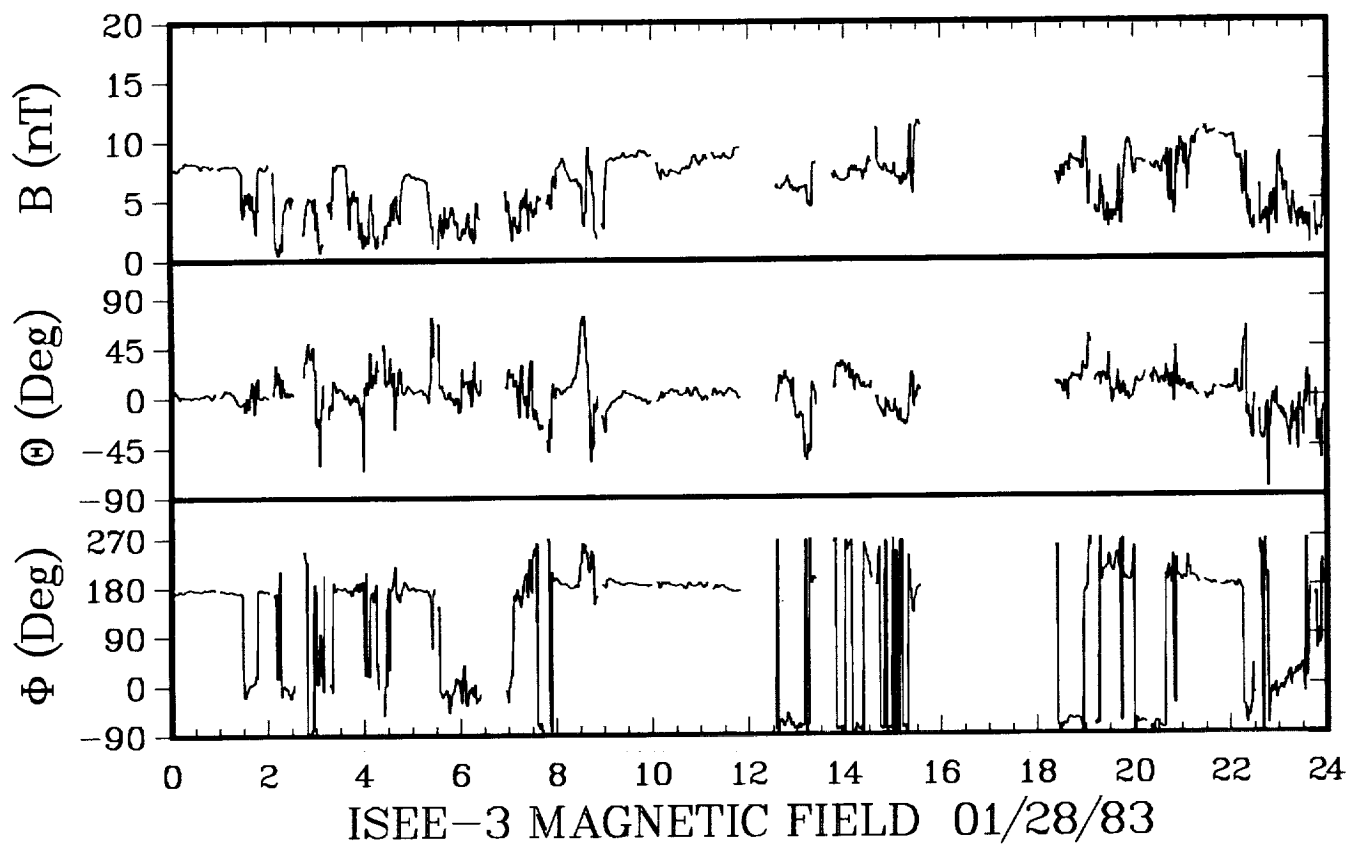
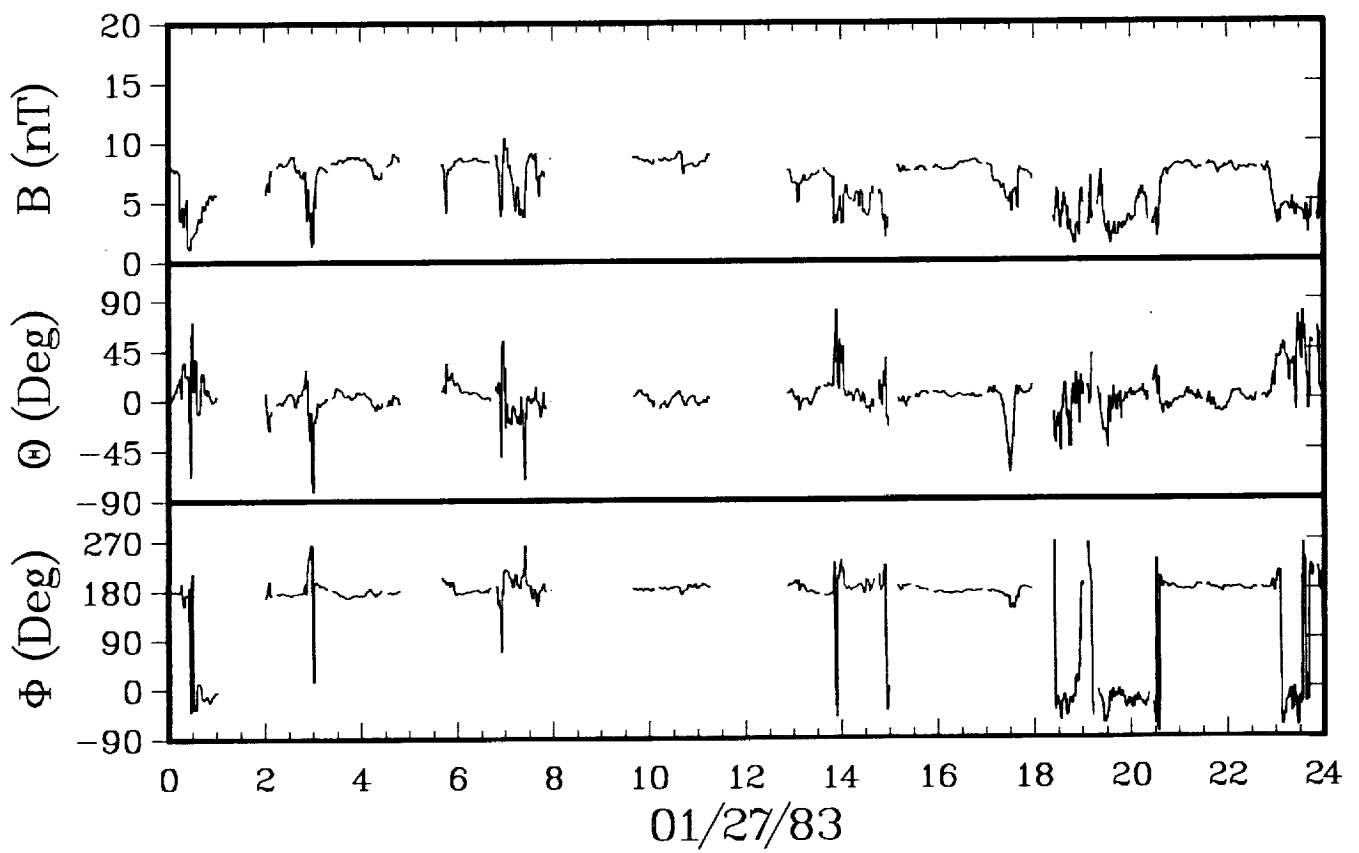


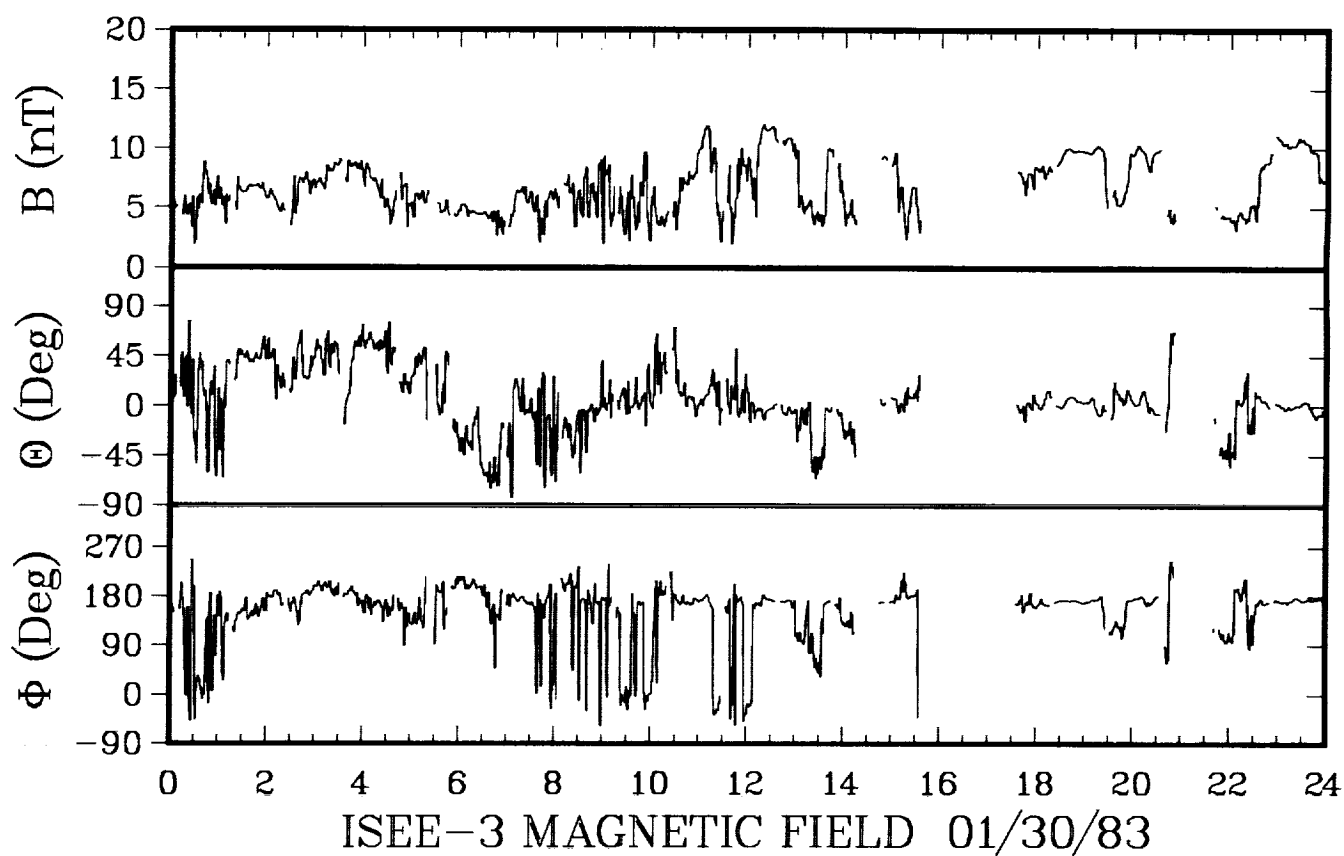
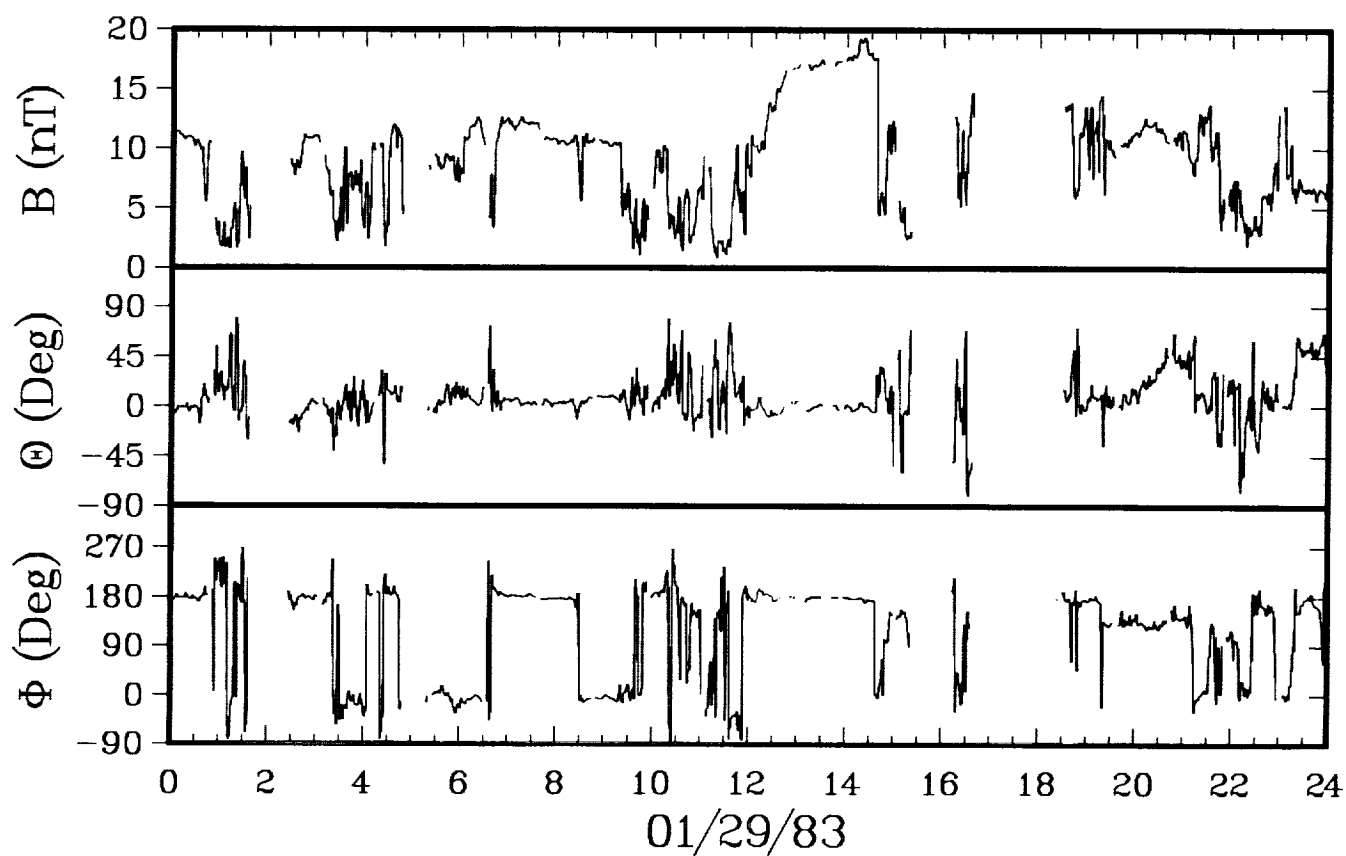


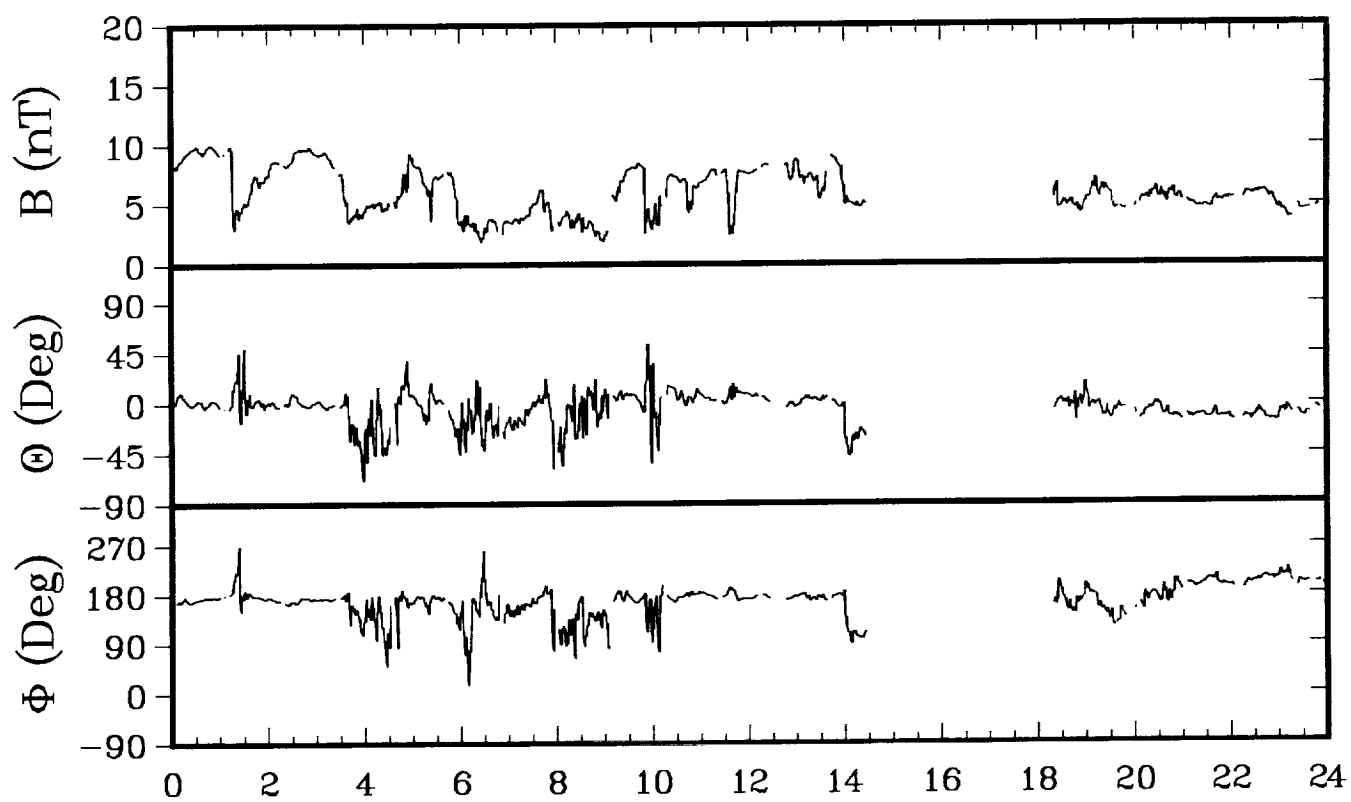




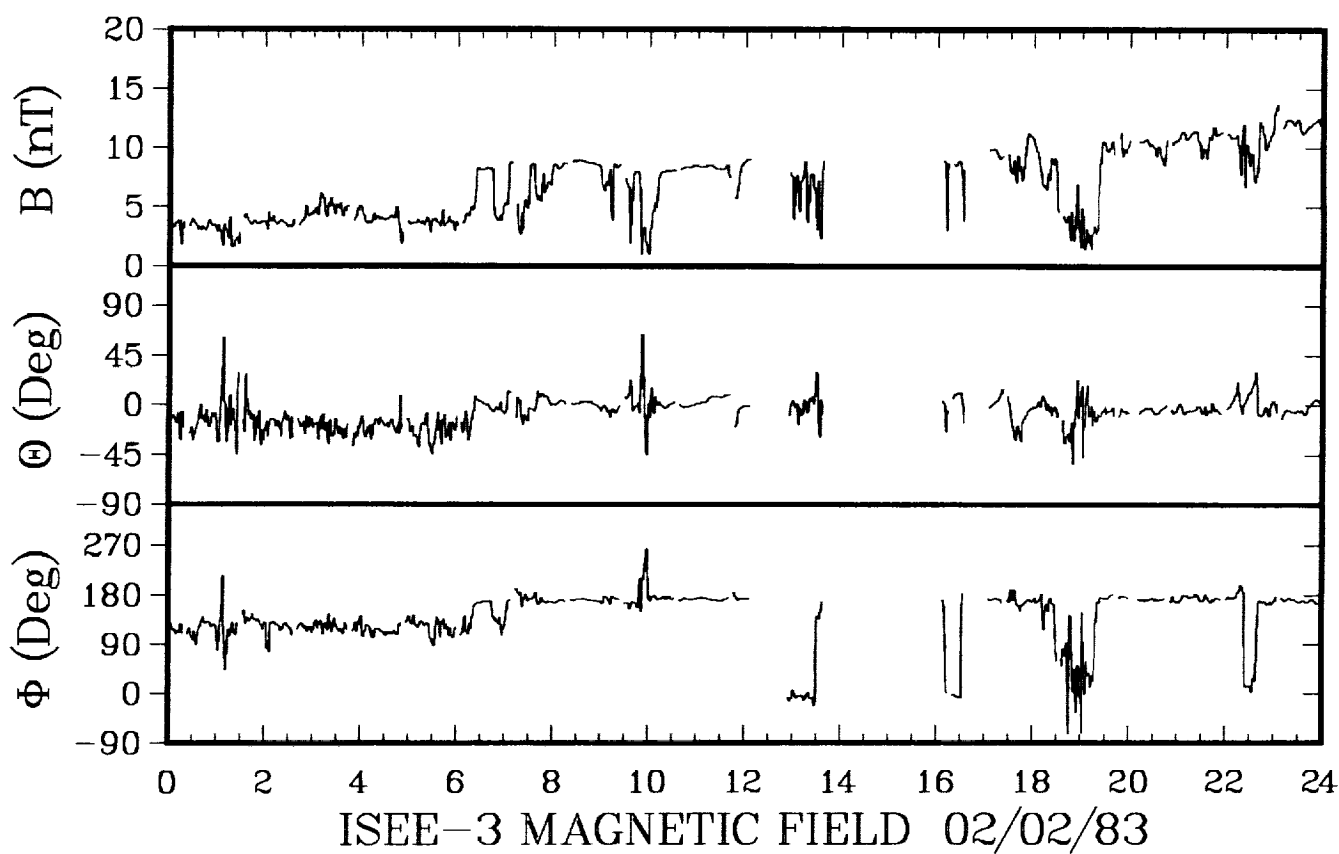
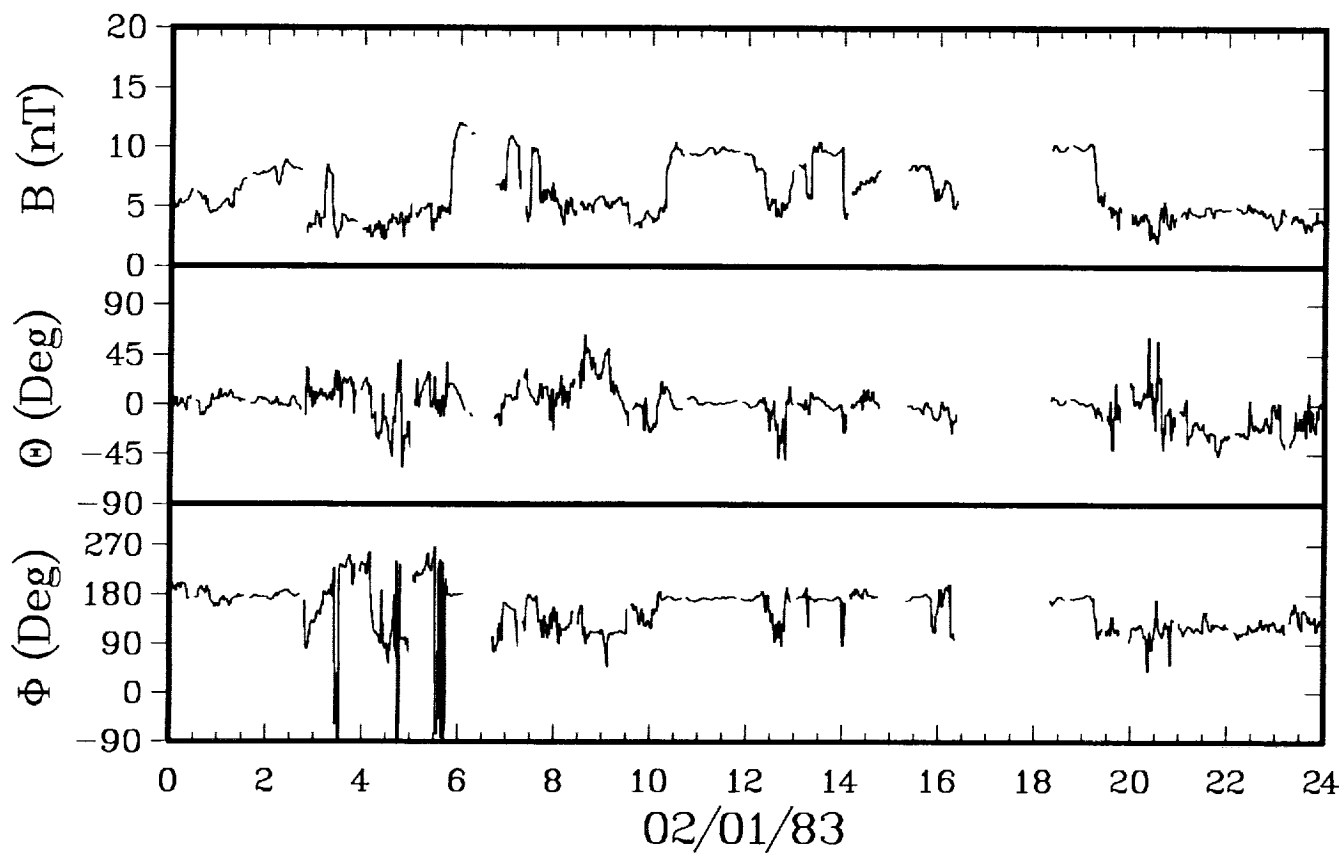


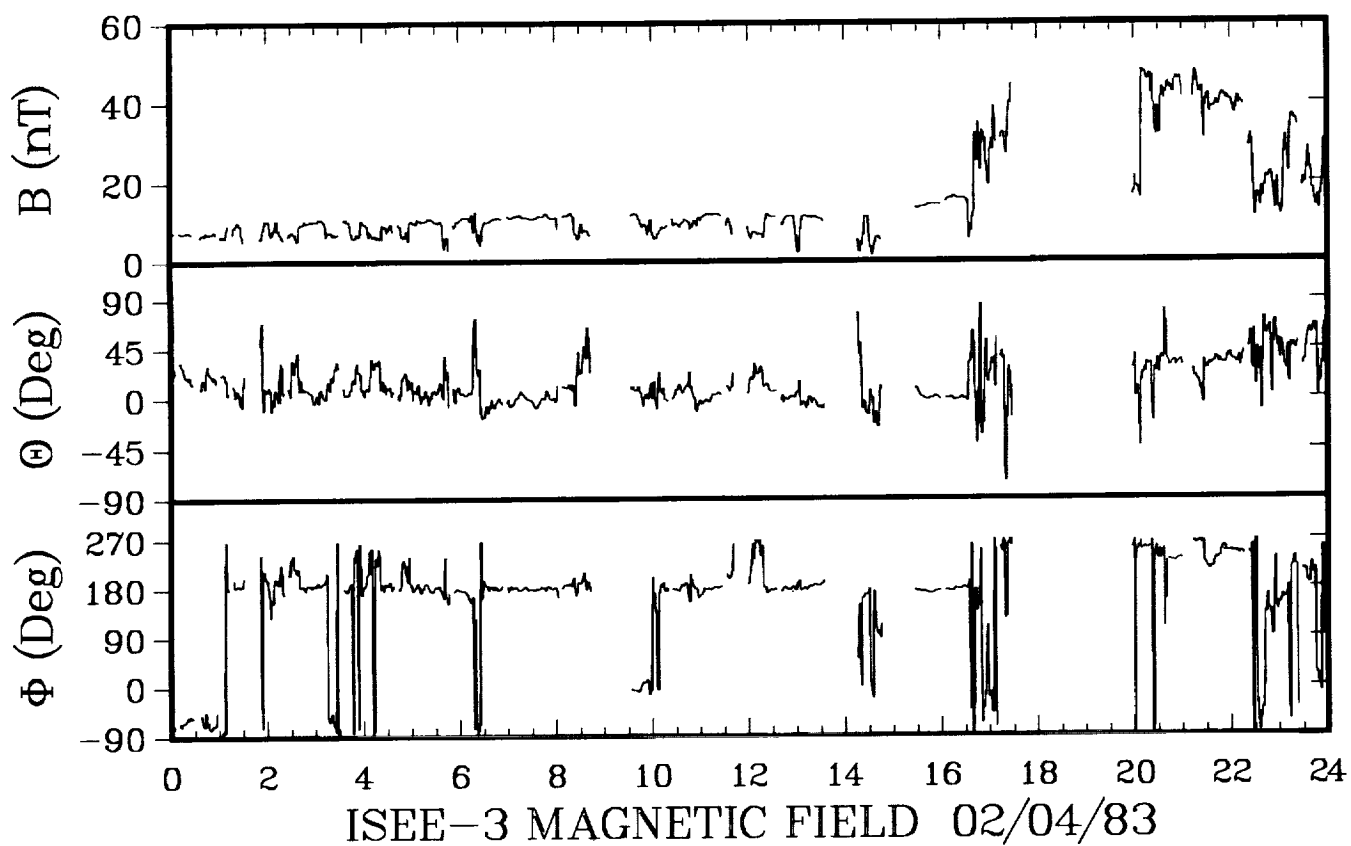
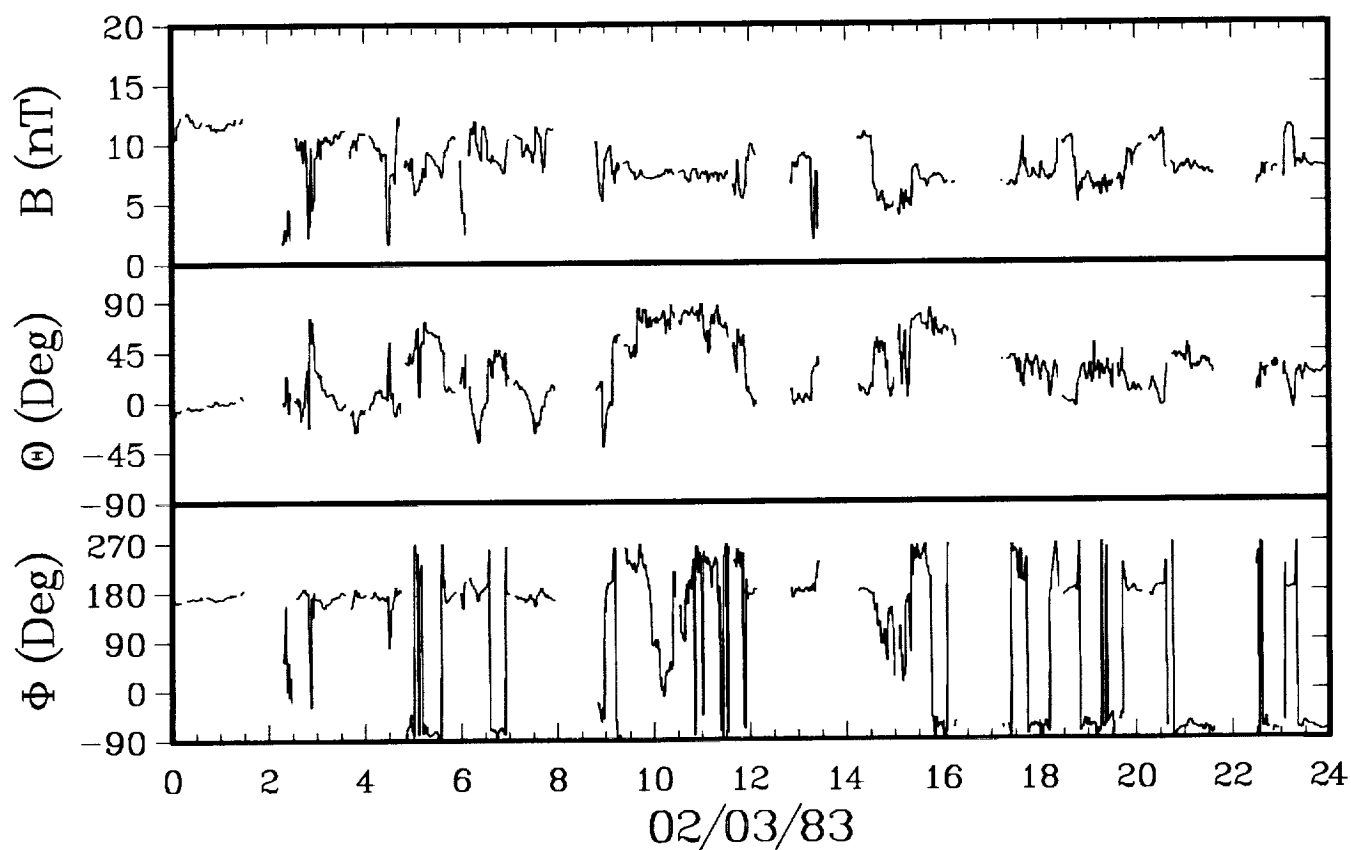


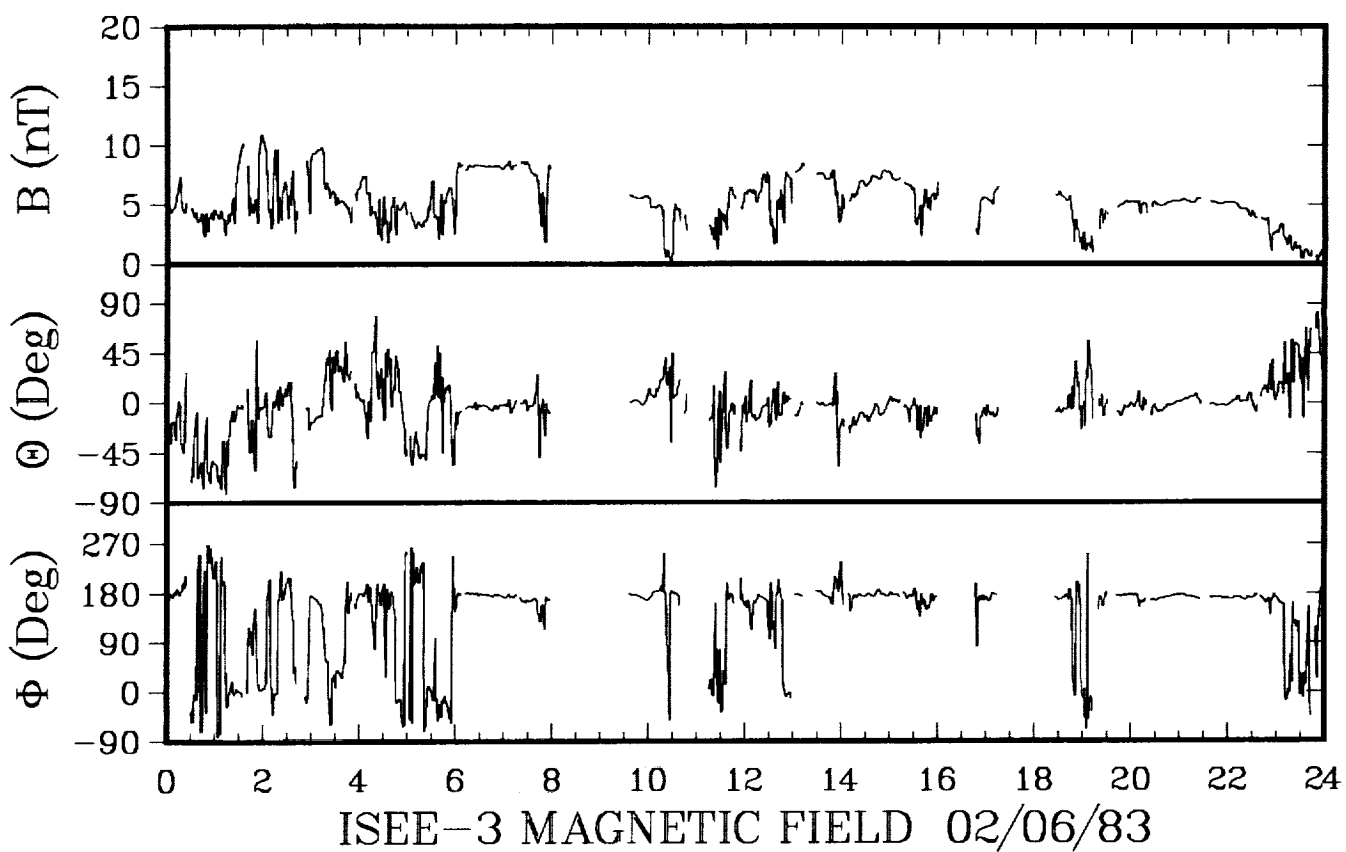
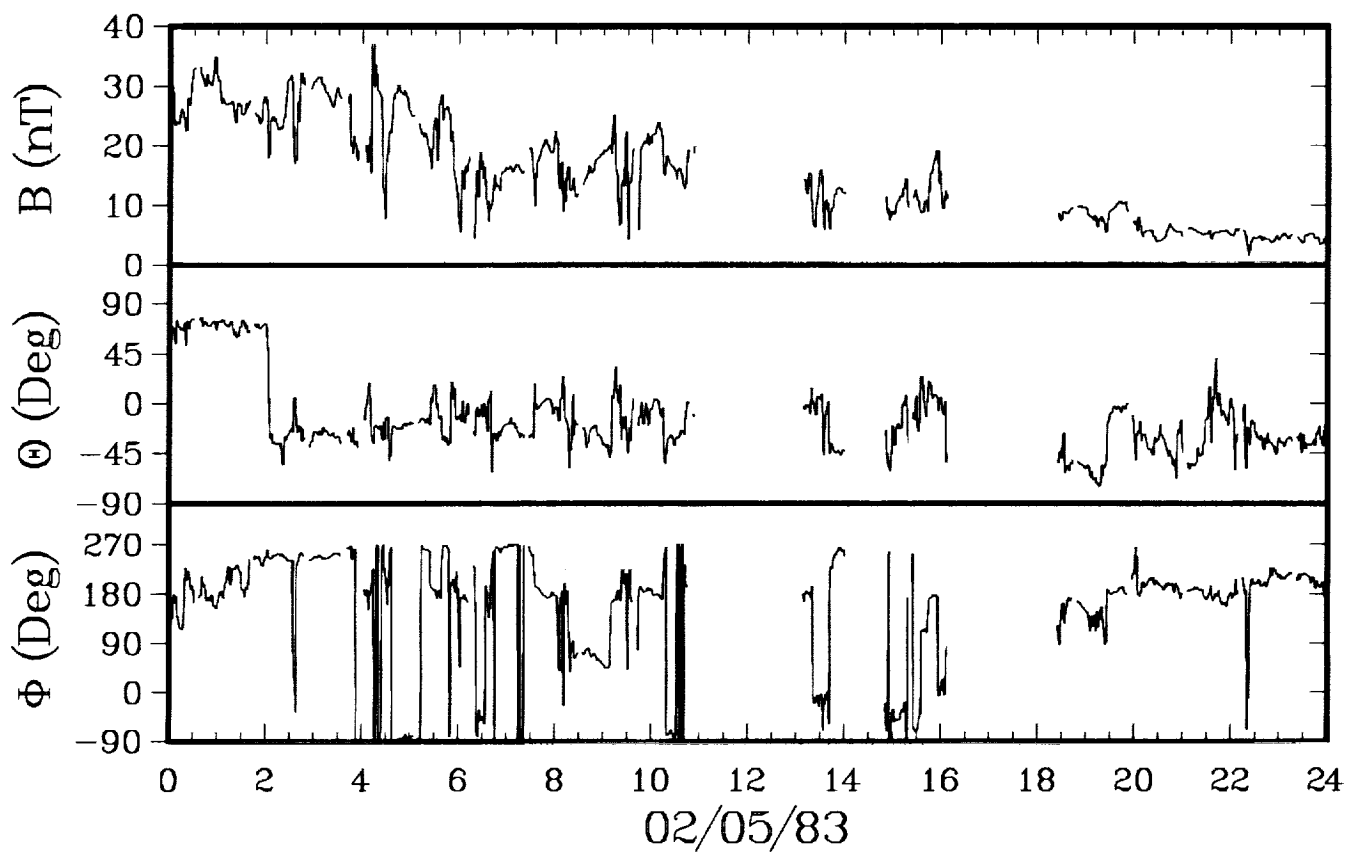


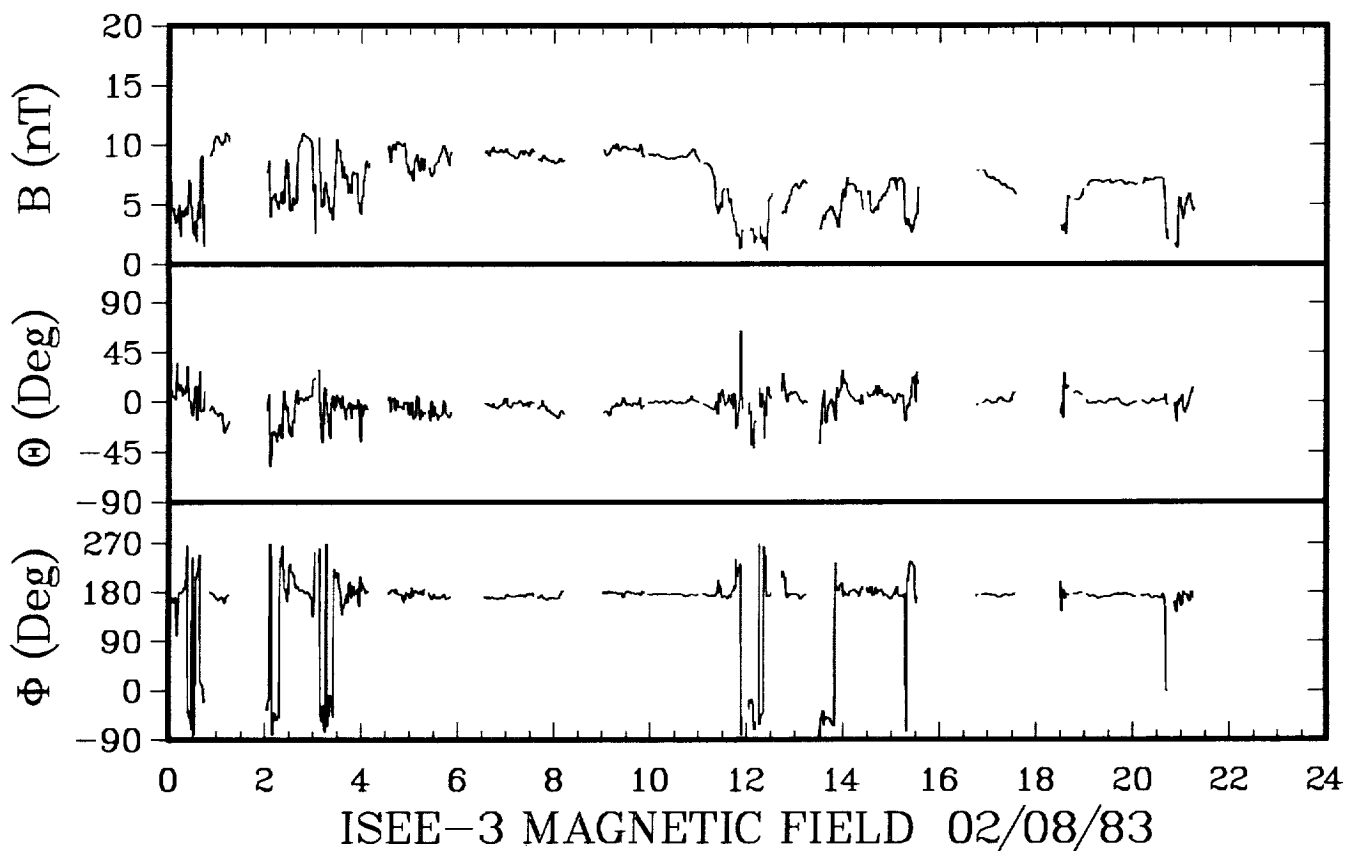
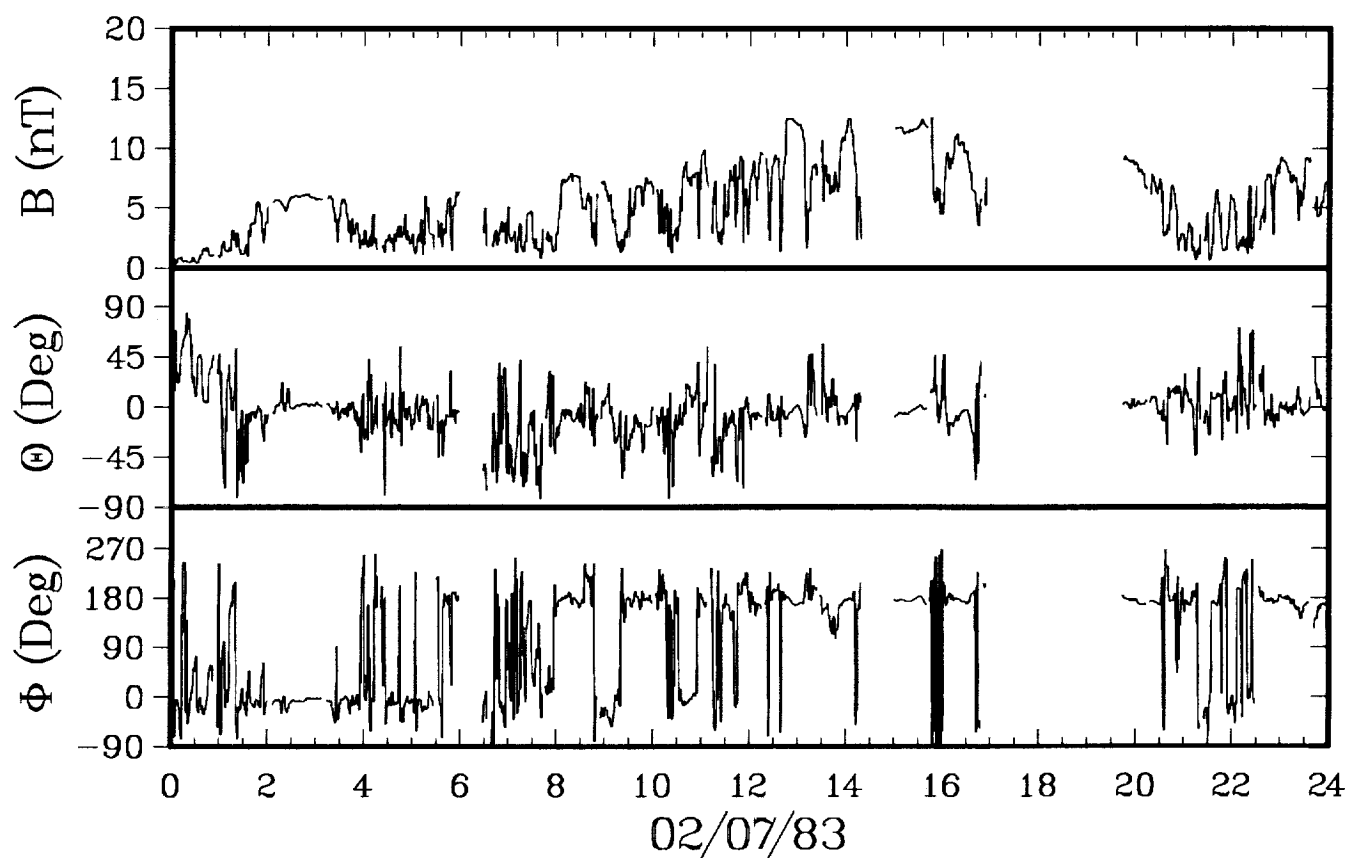


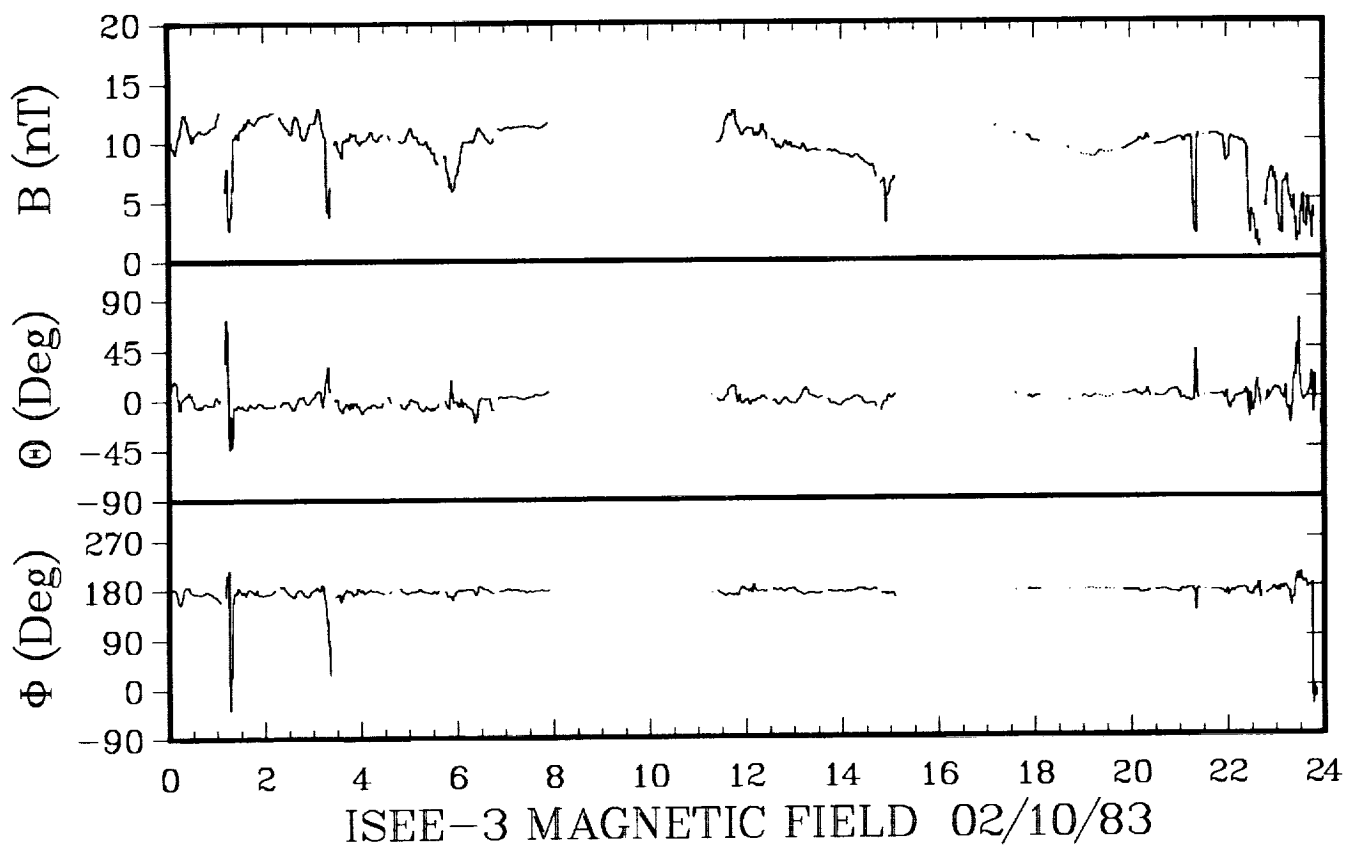
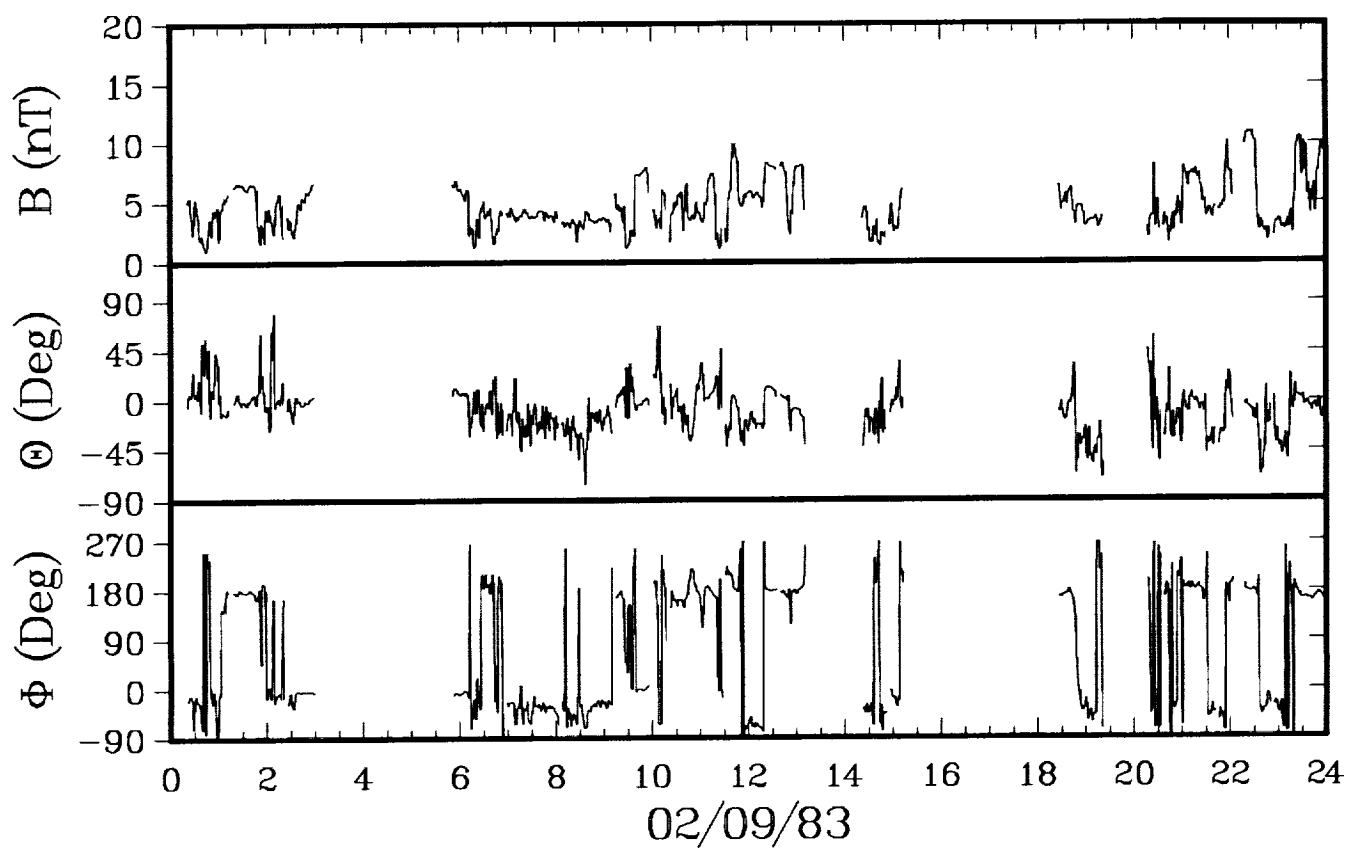
ISEE-3 MAGNETIC FIELD 01/31/83

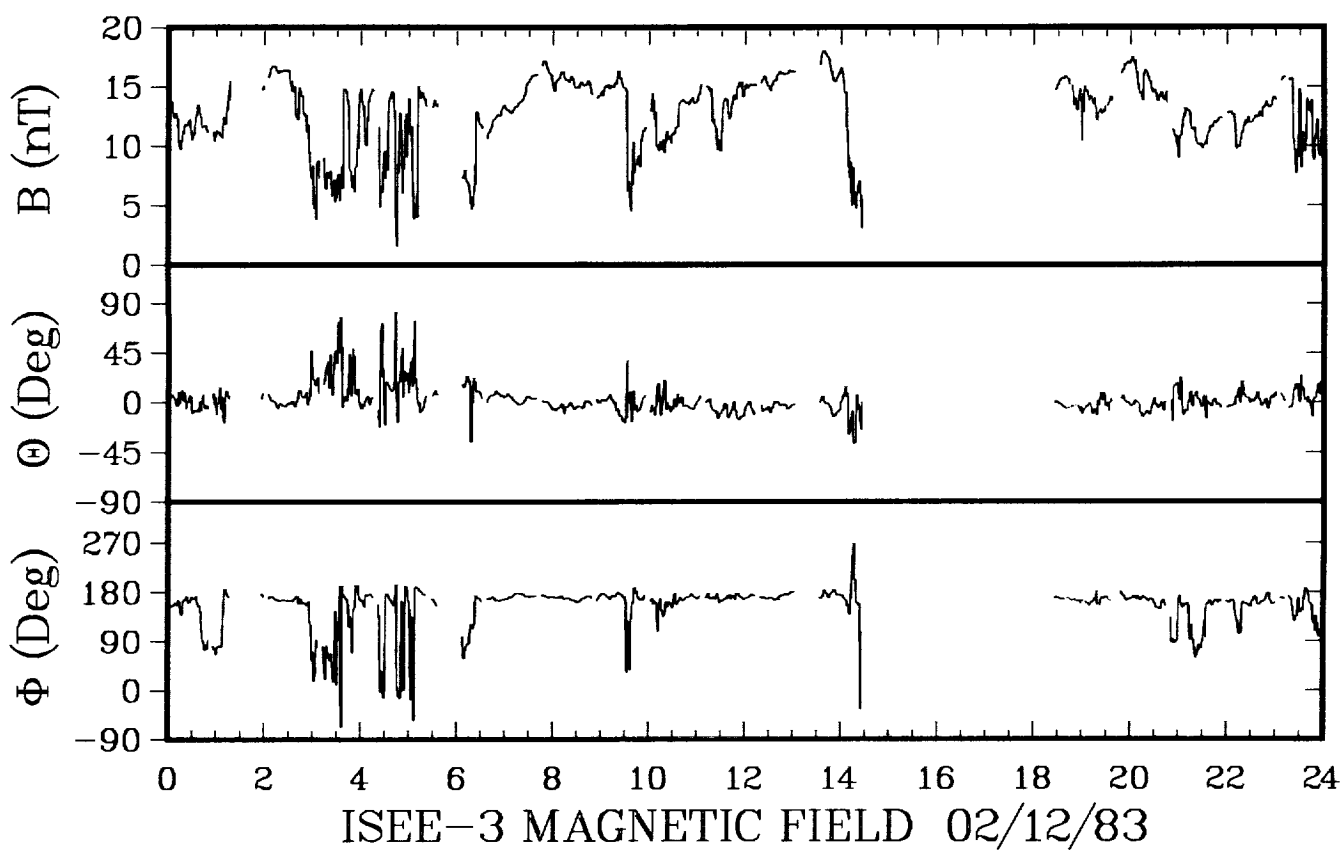
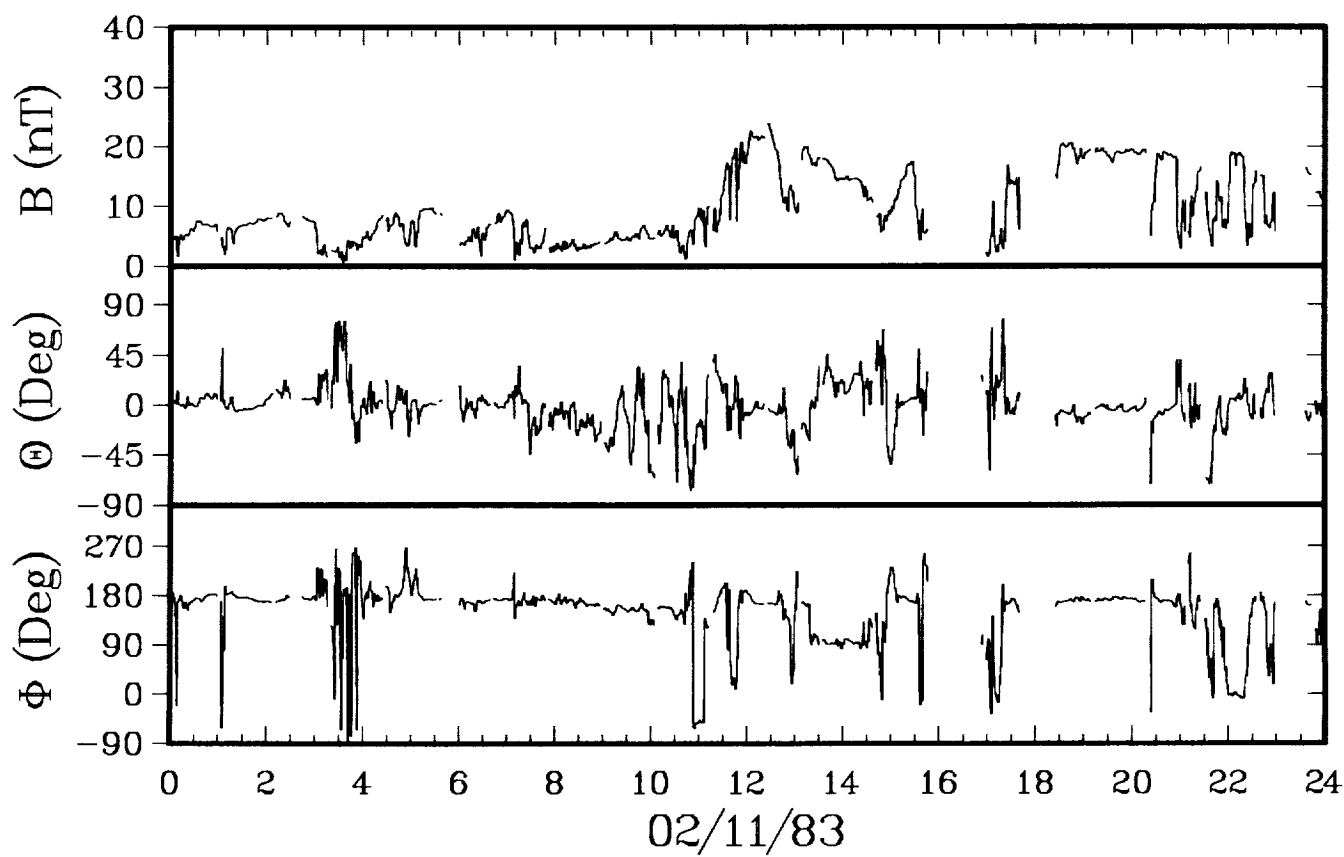


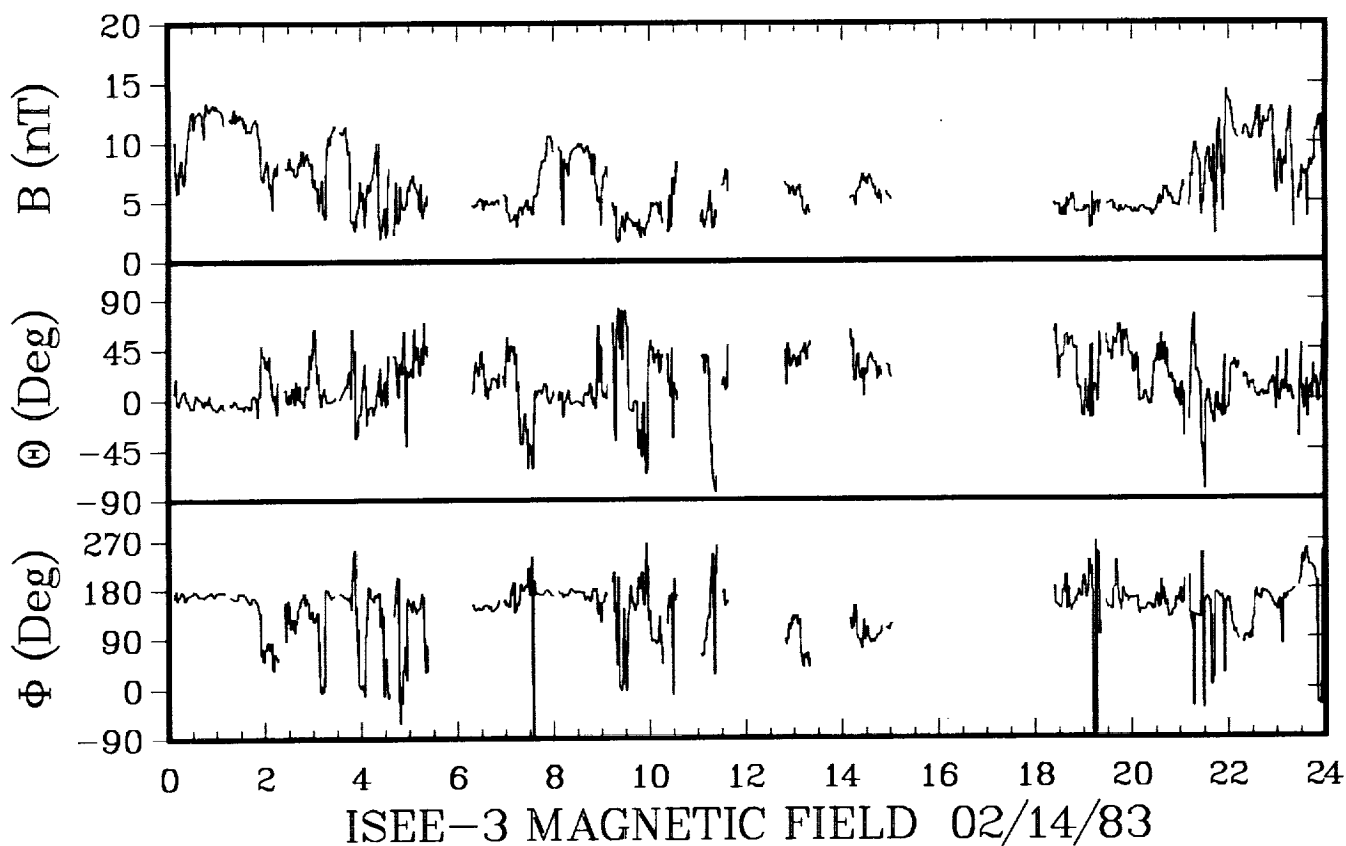
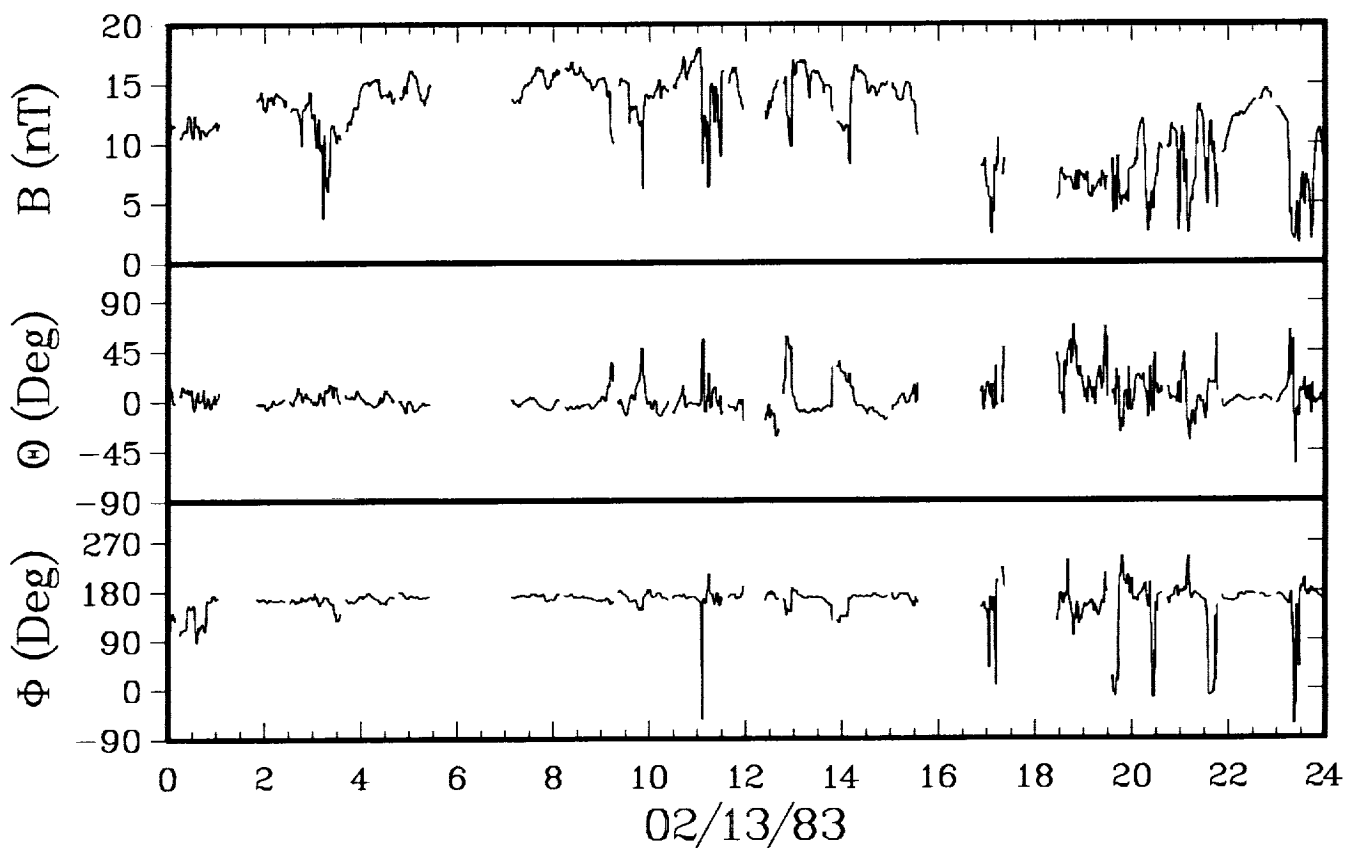


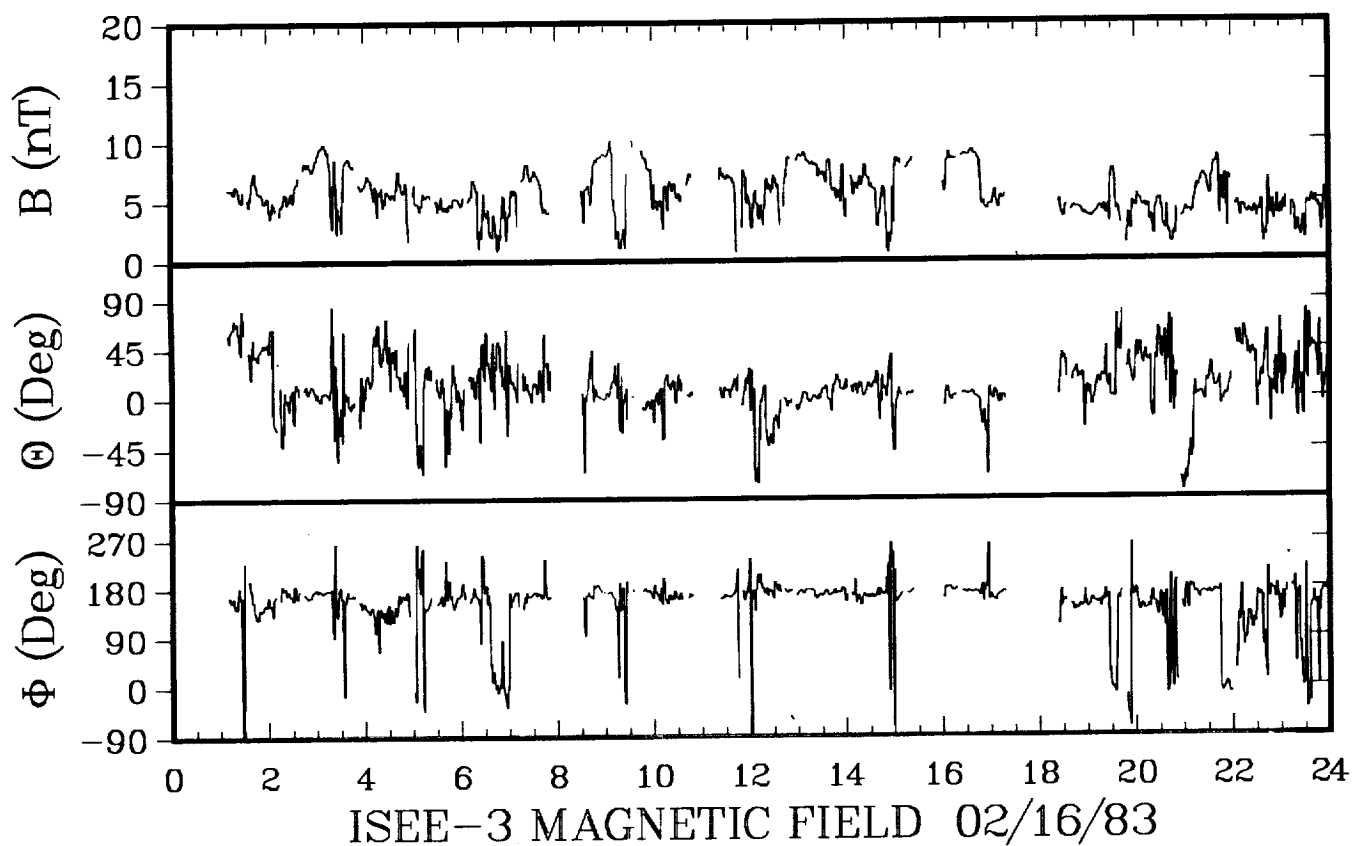
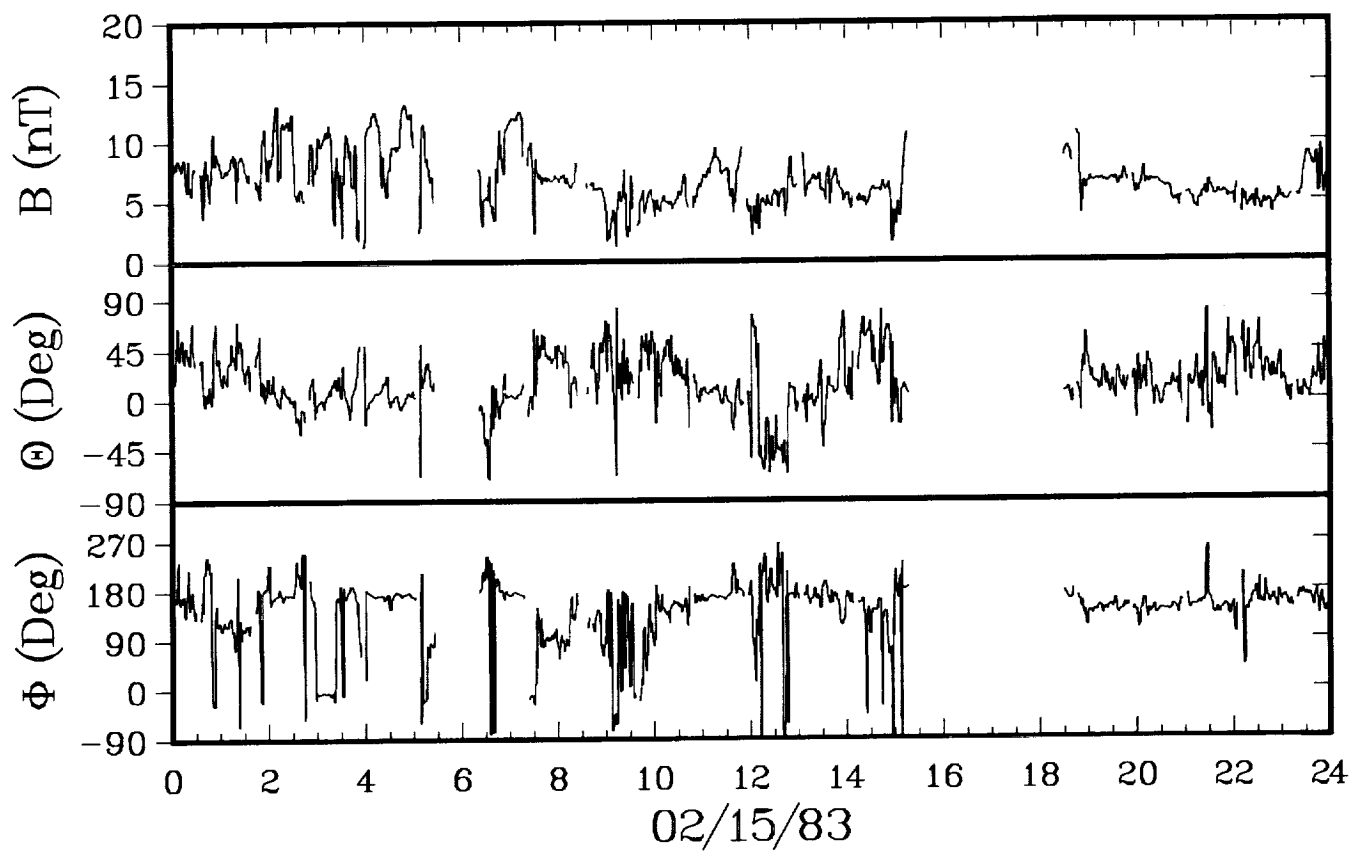


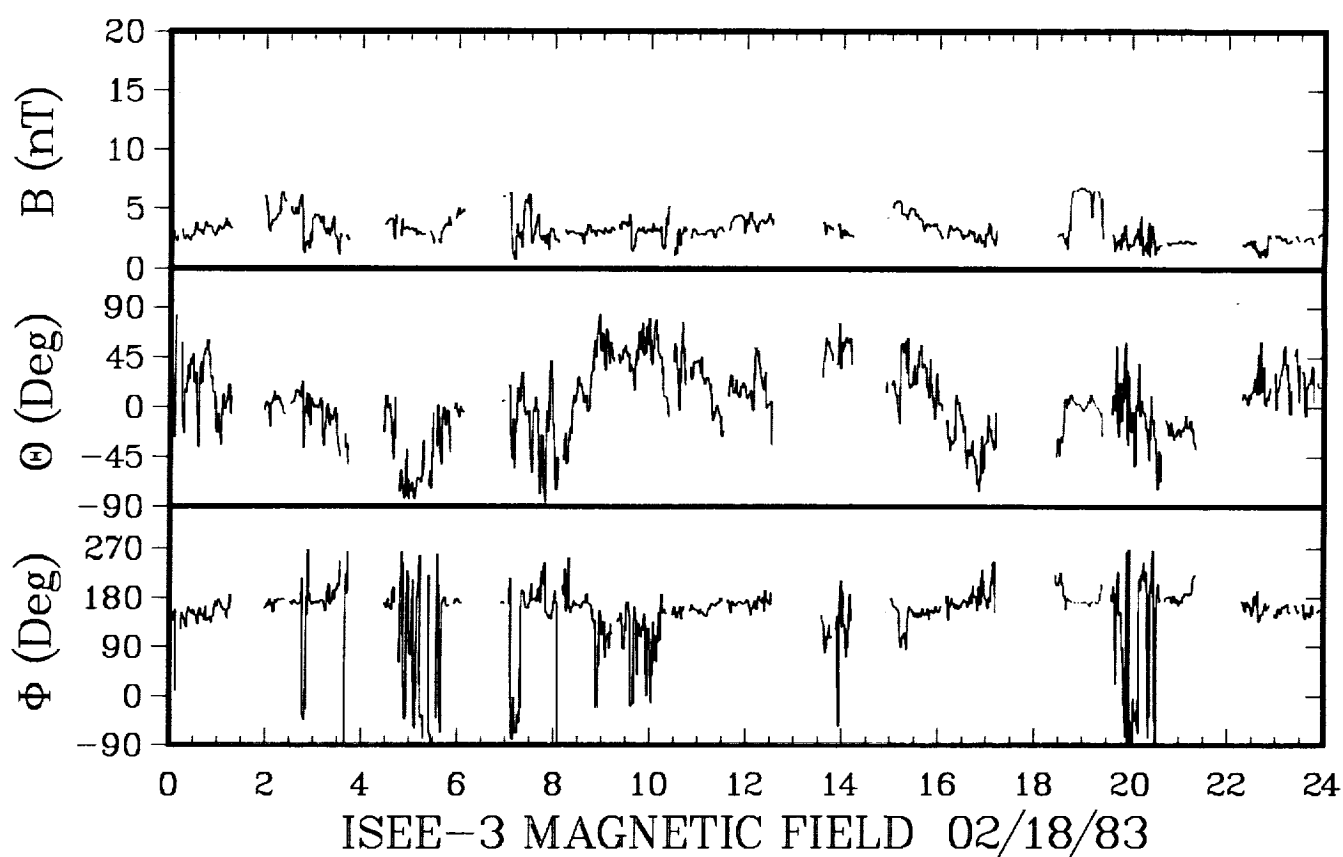
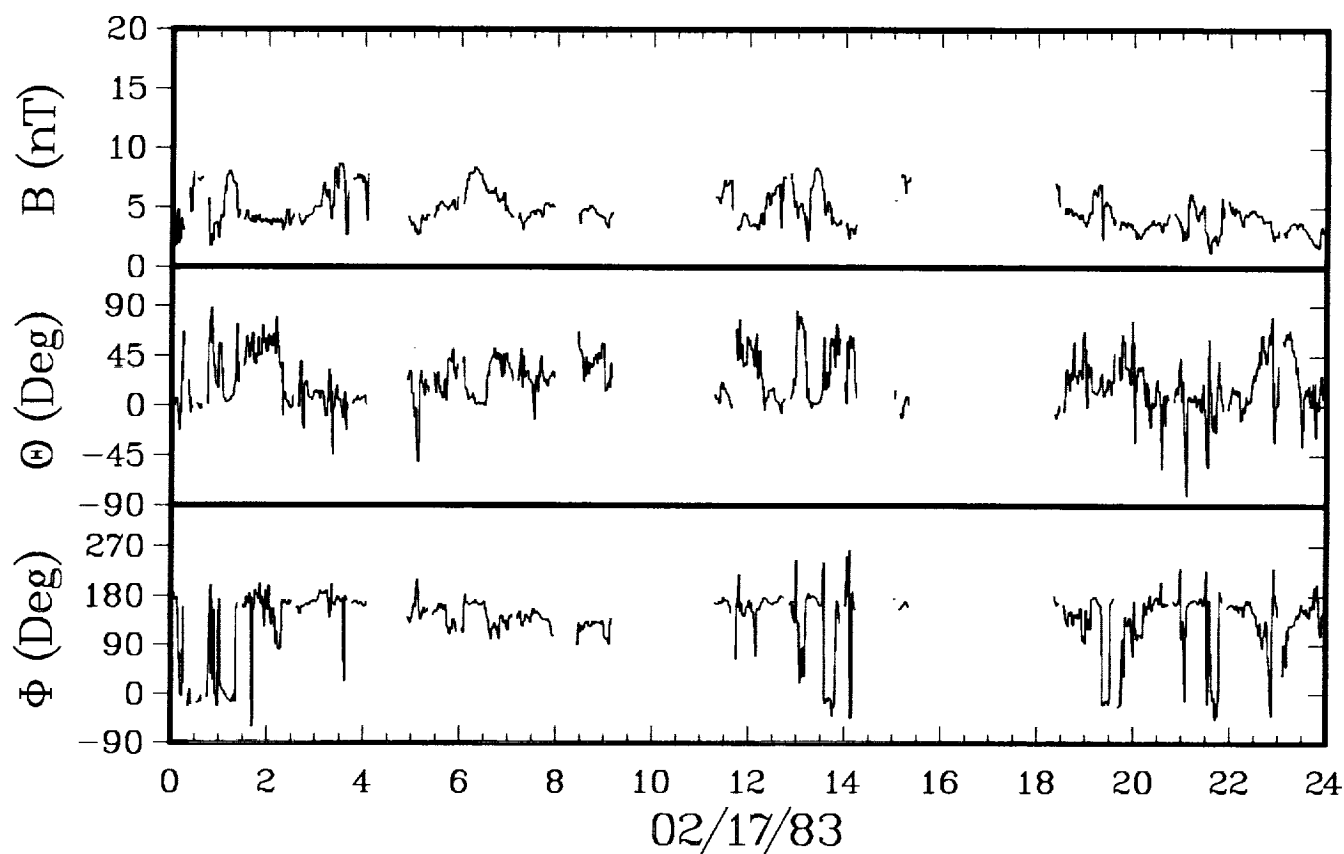


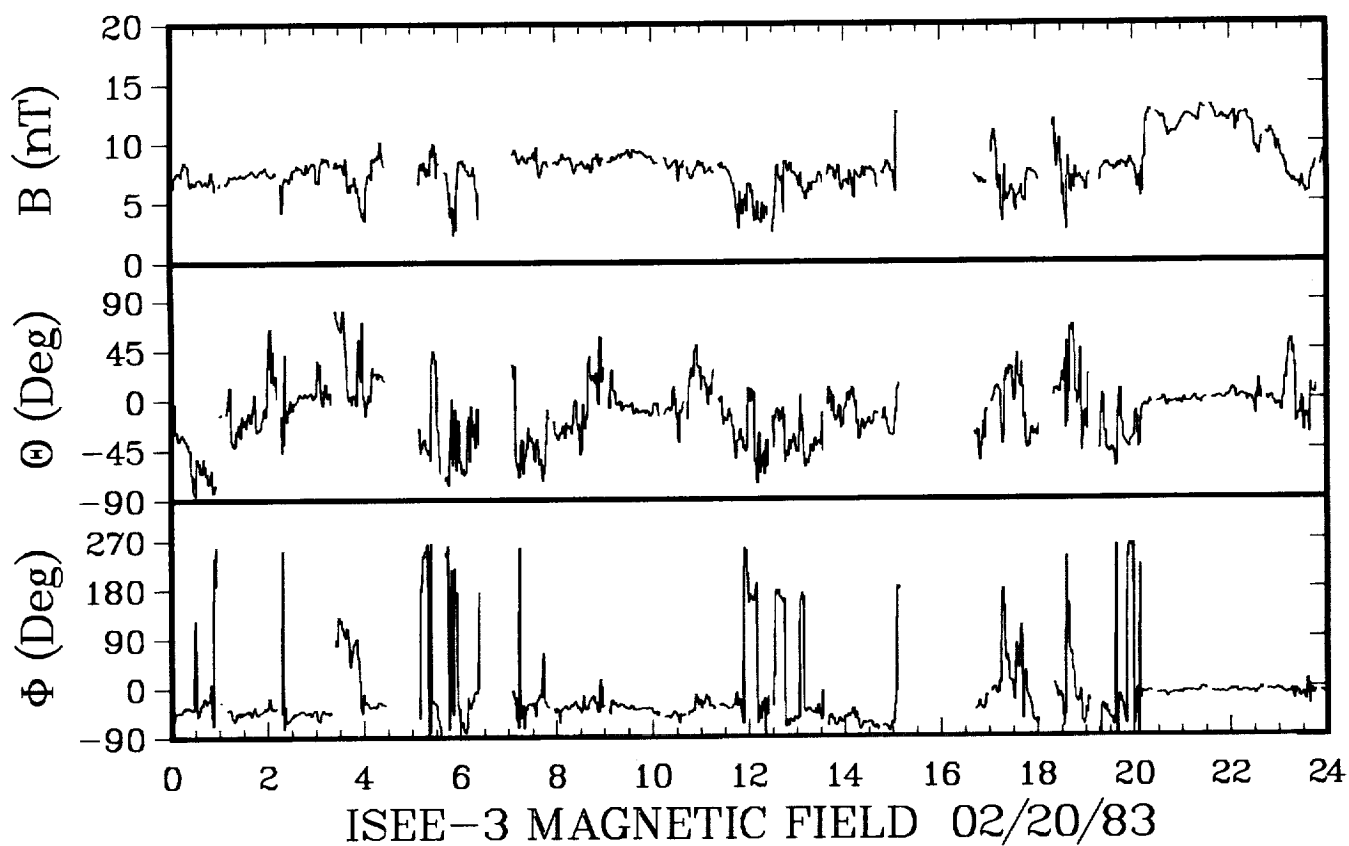
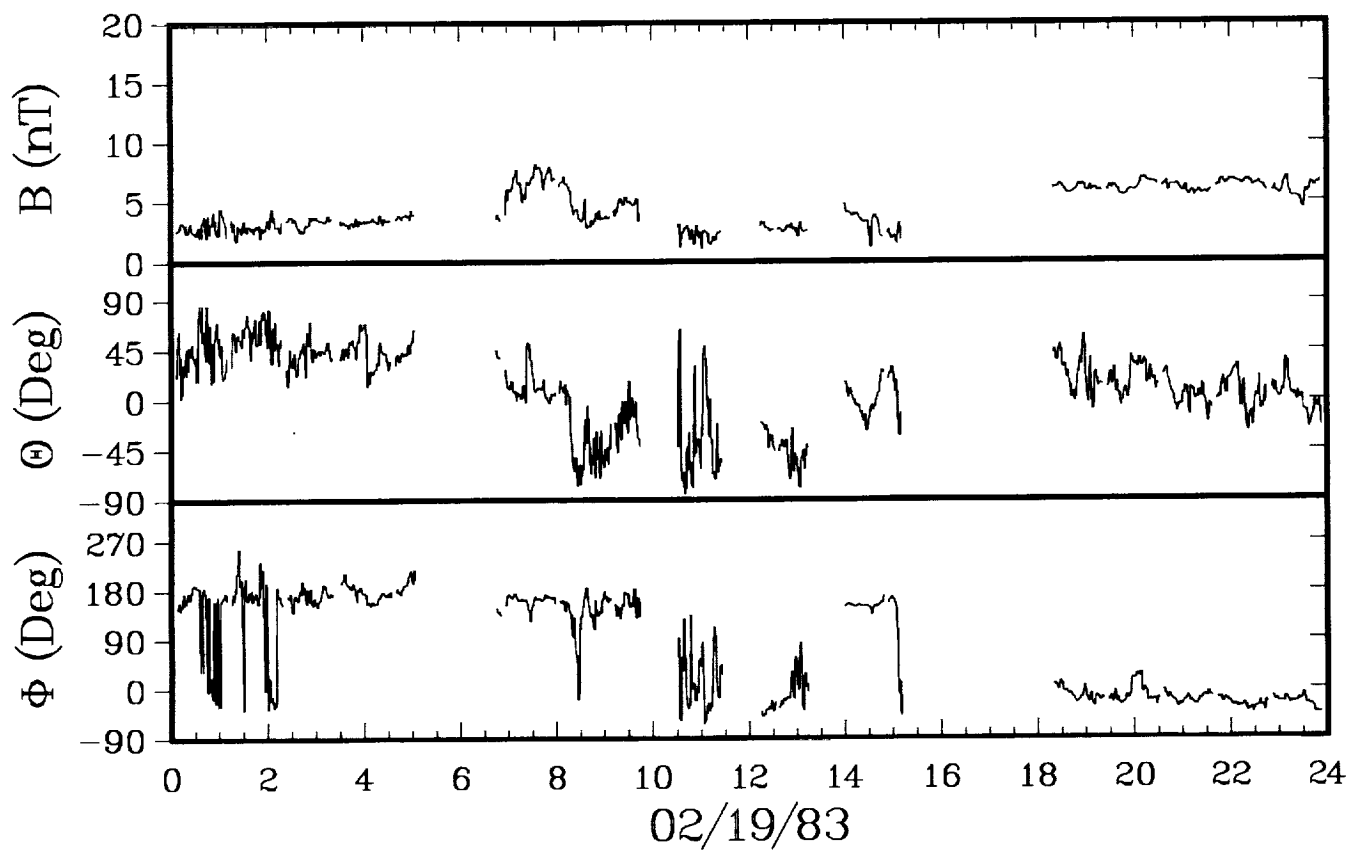


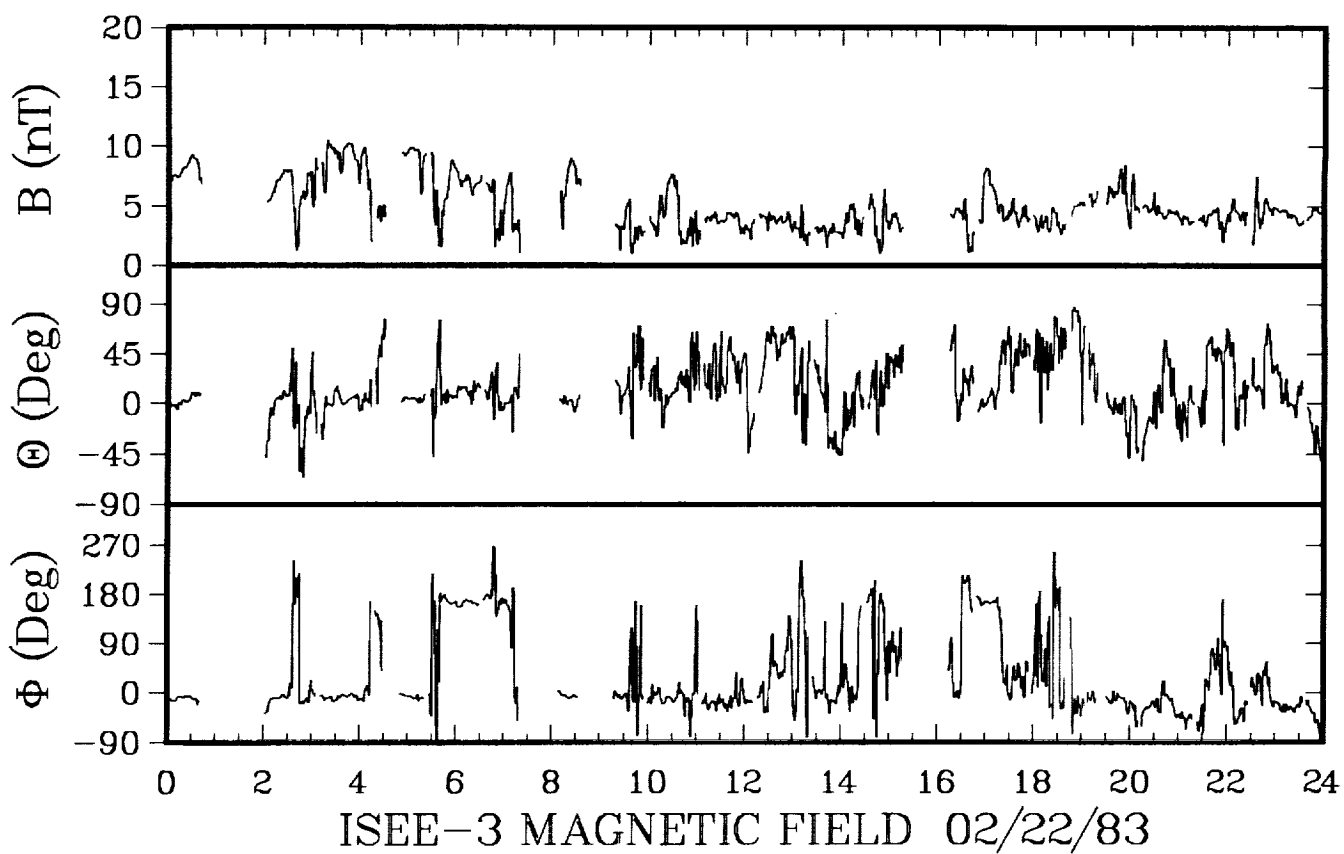
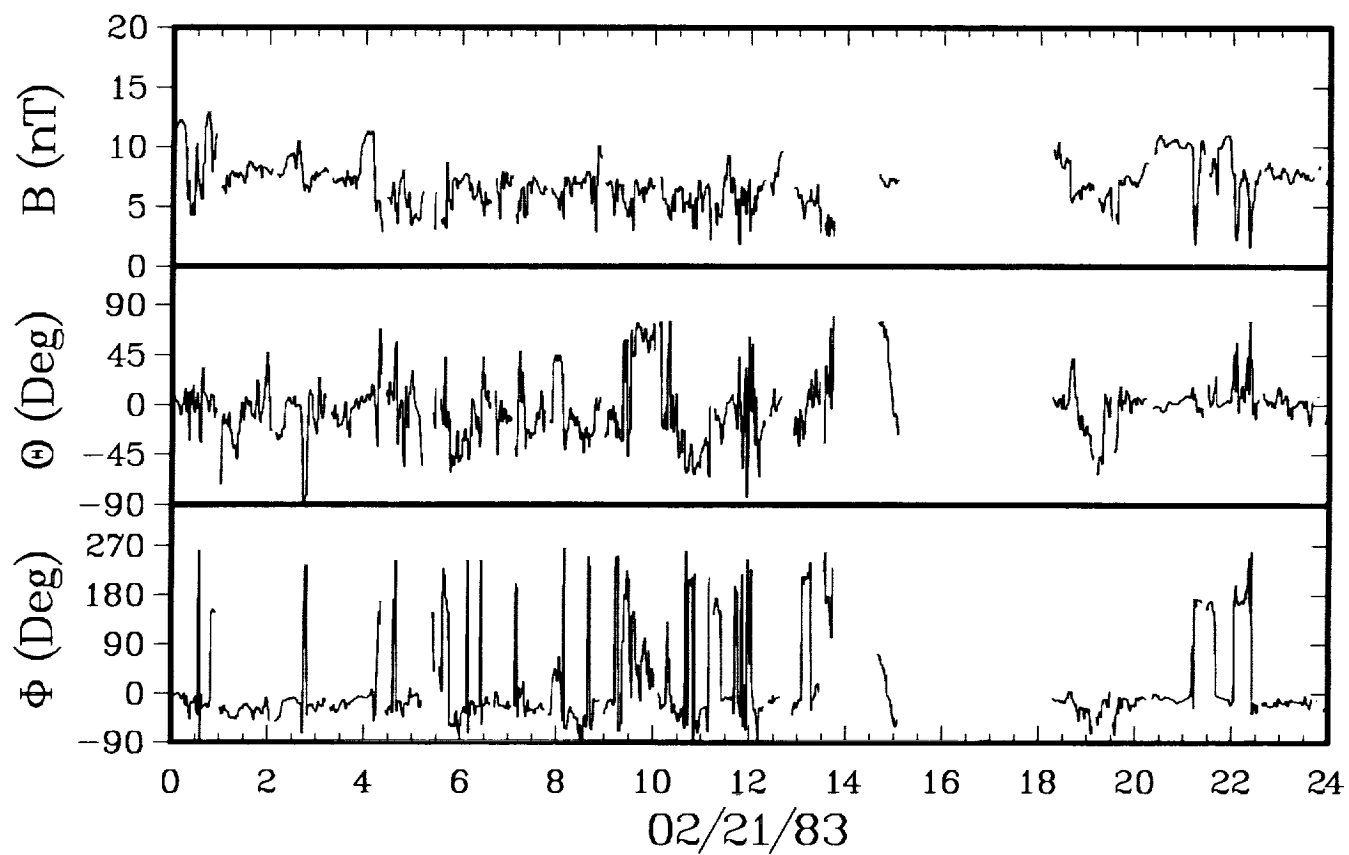


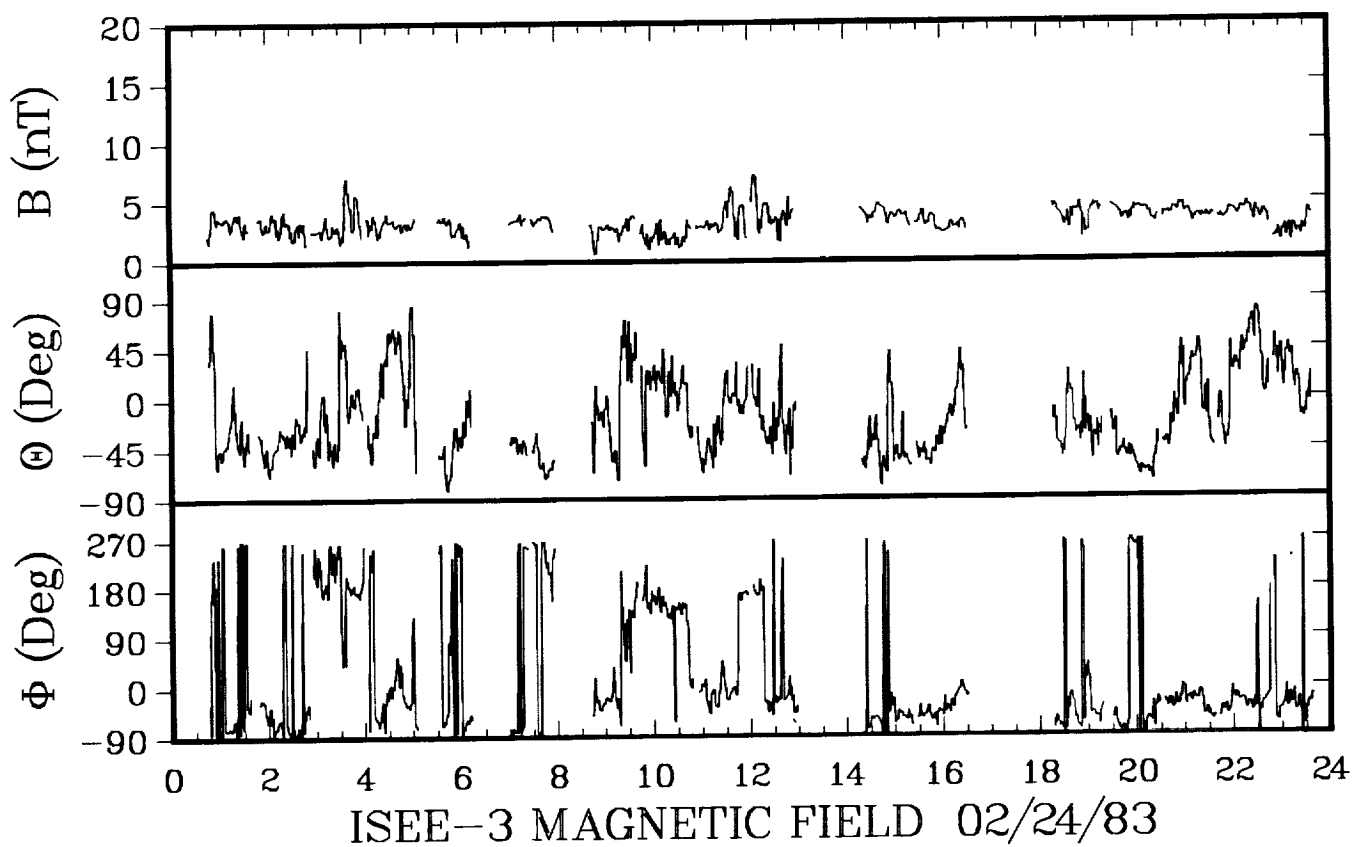
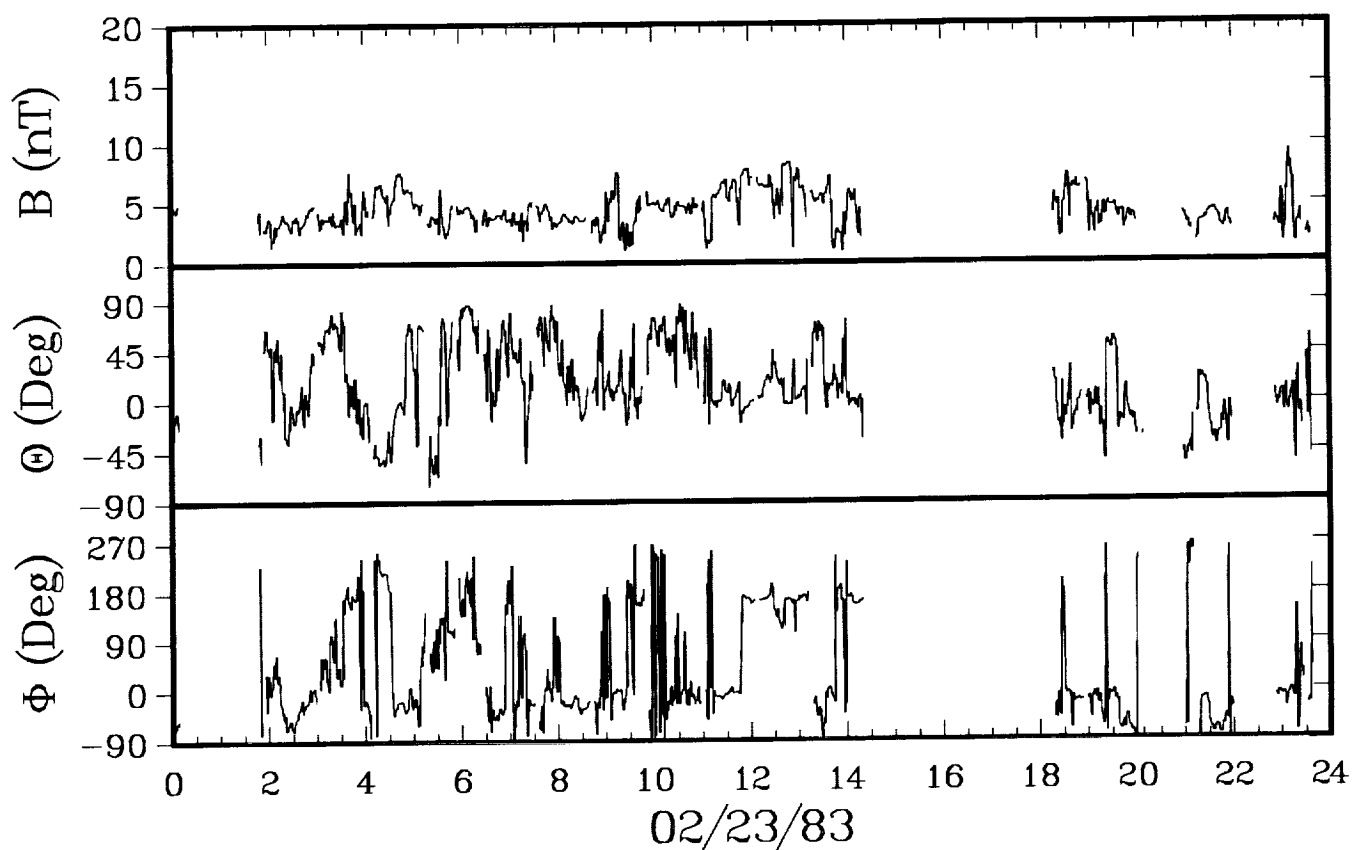


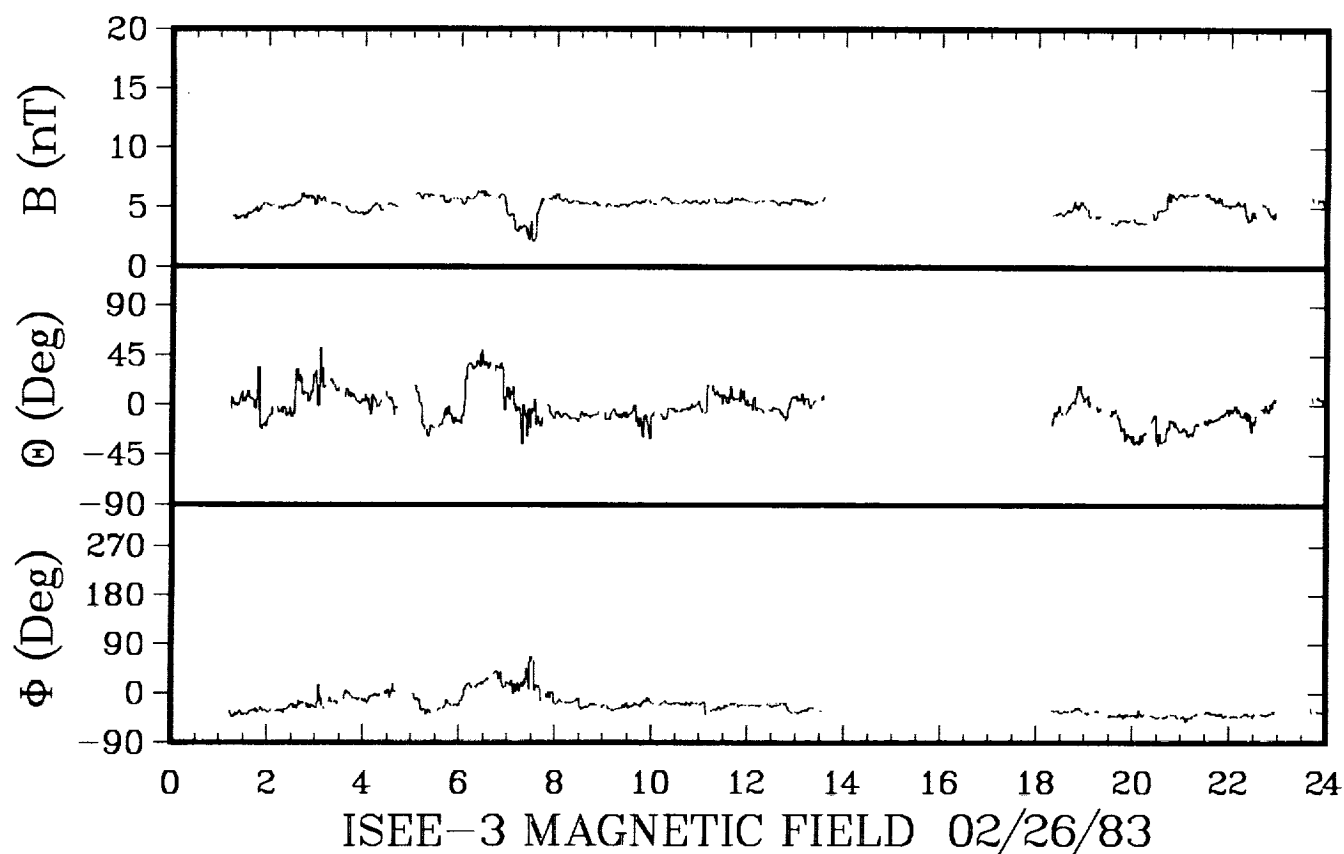
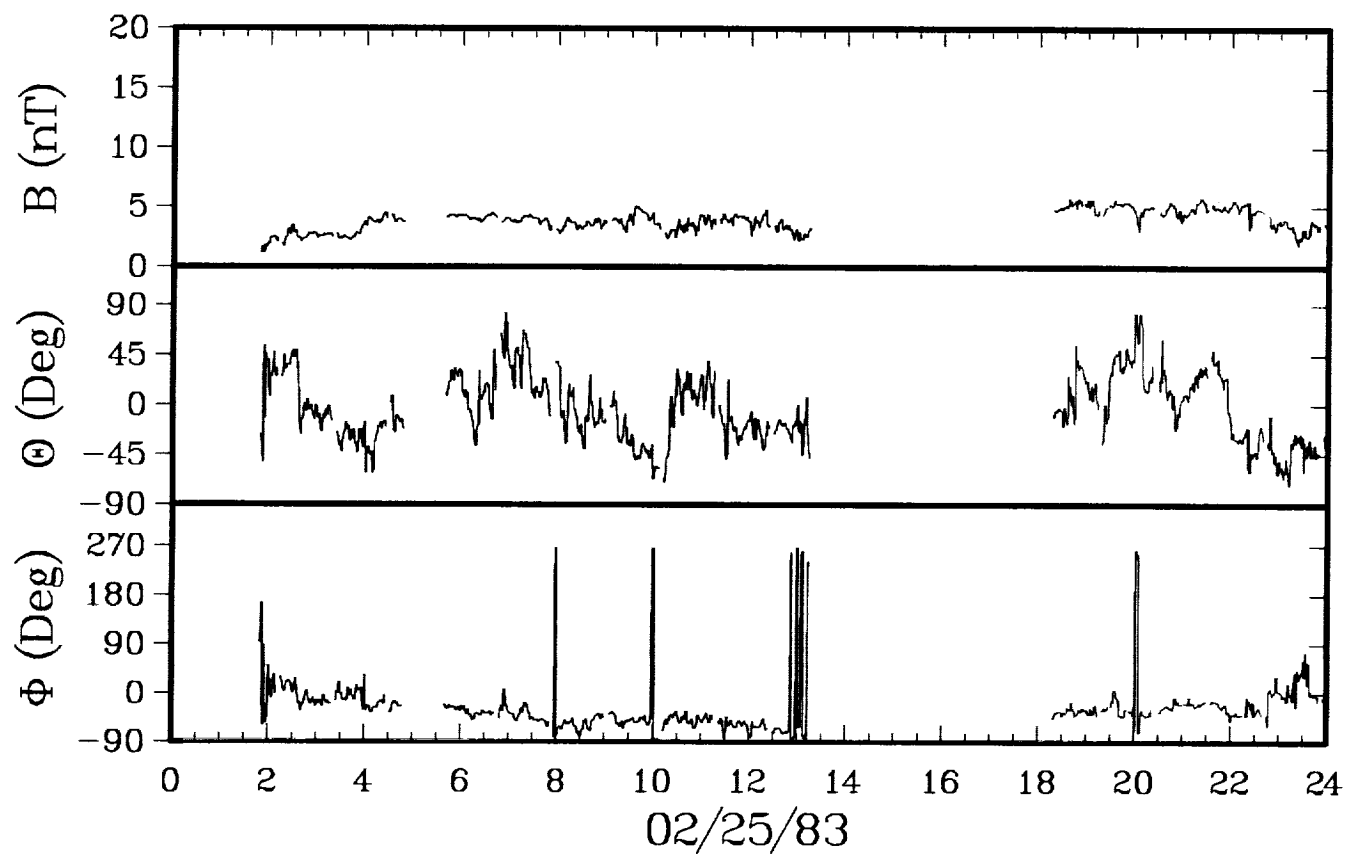


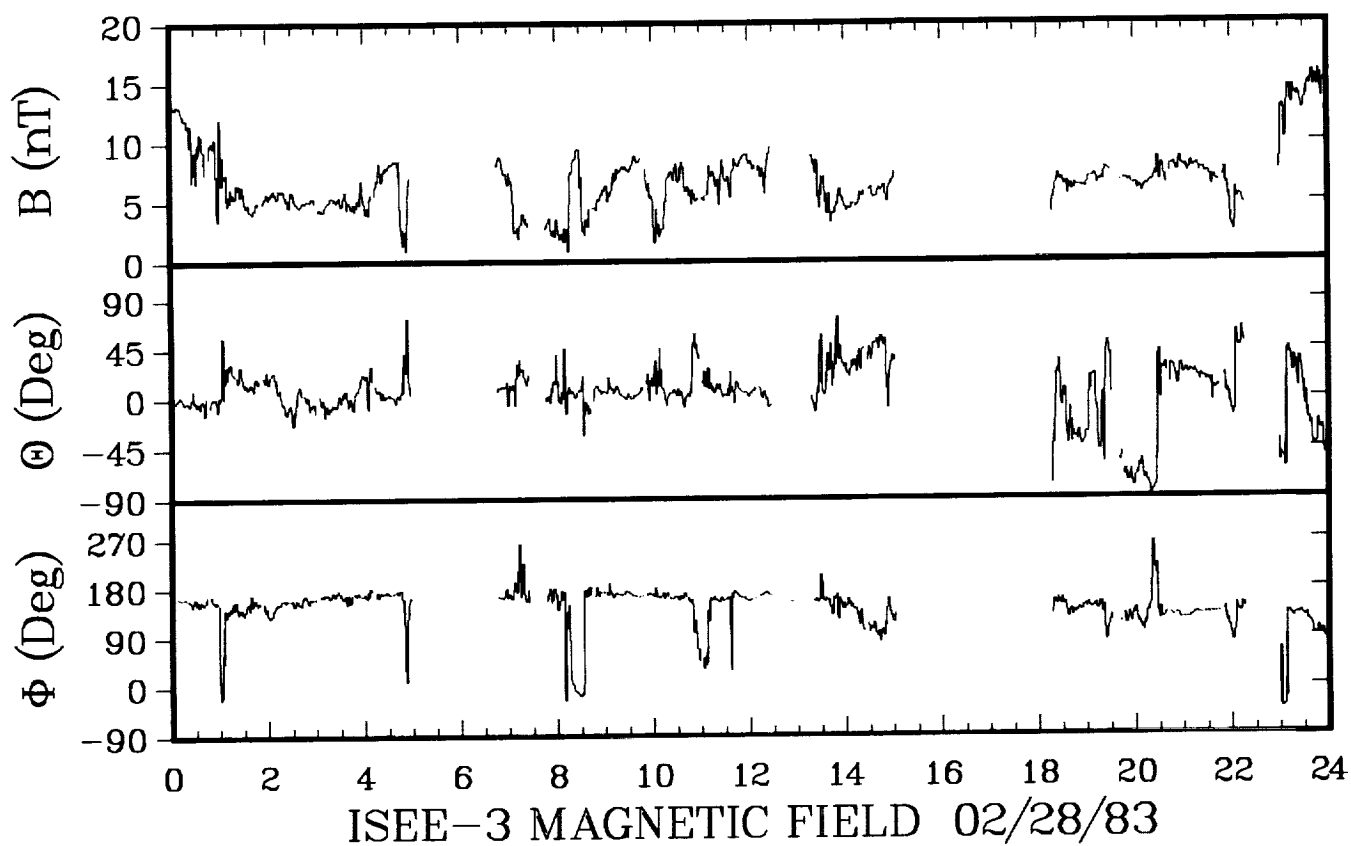
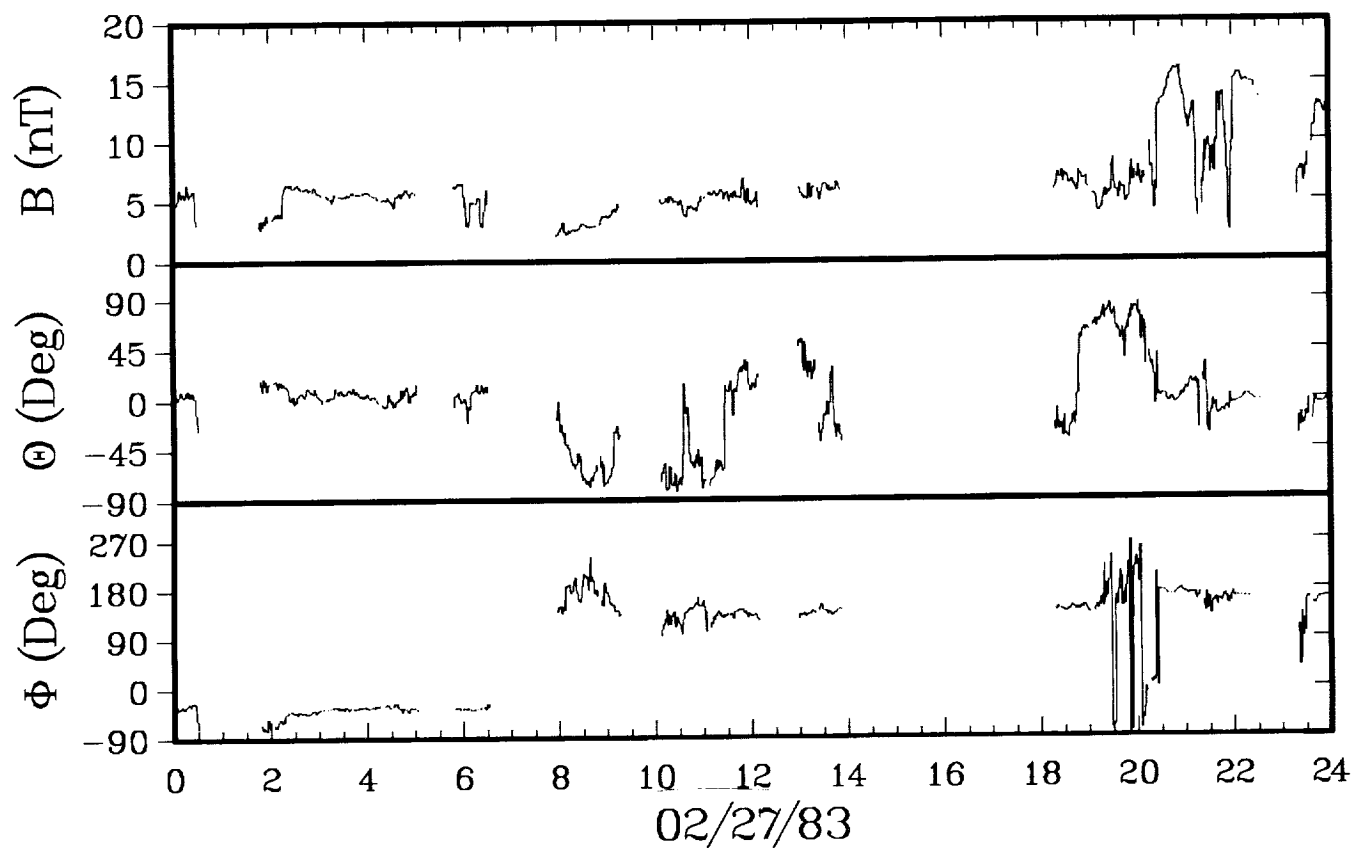


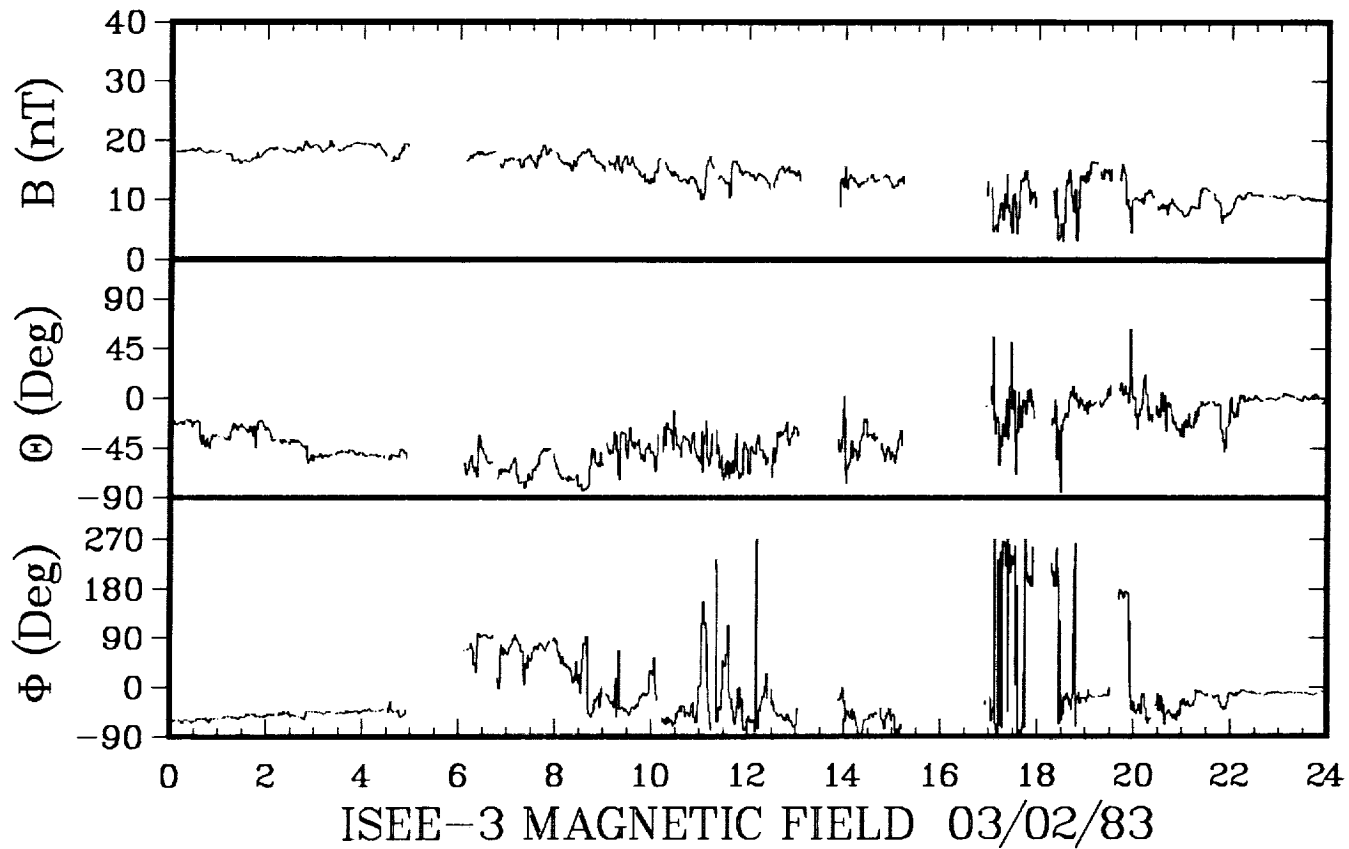
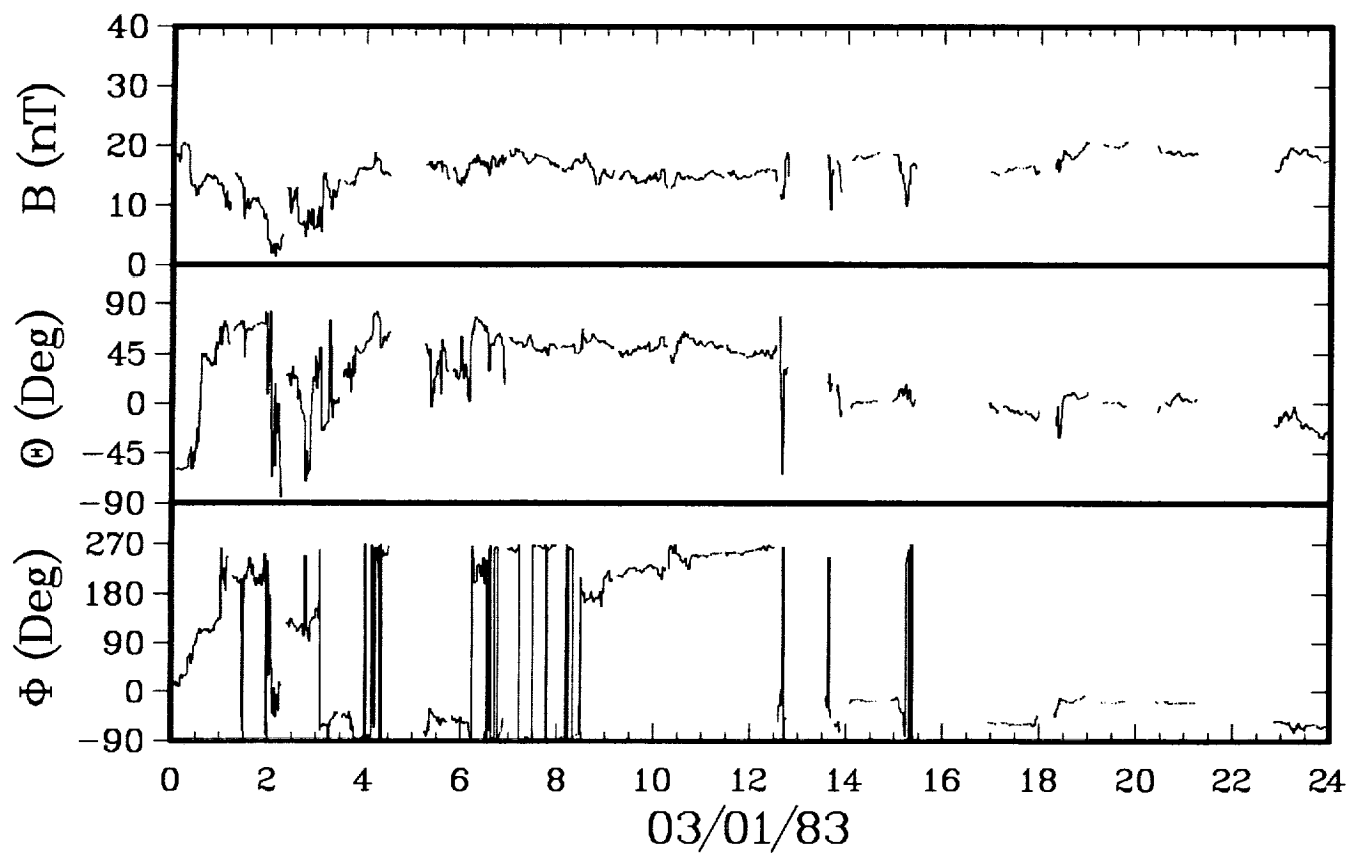


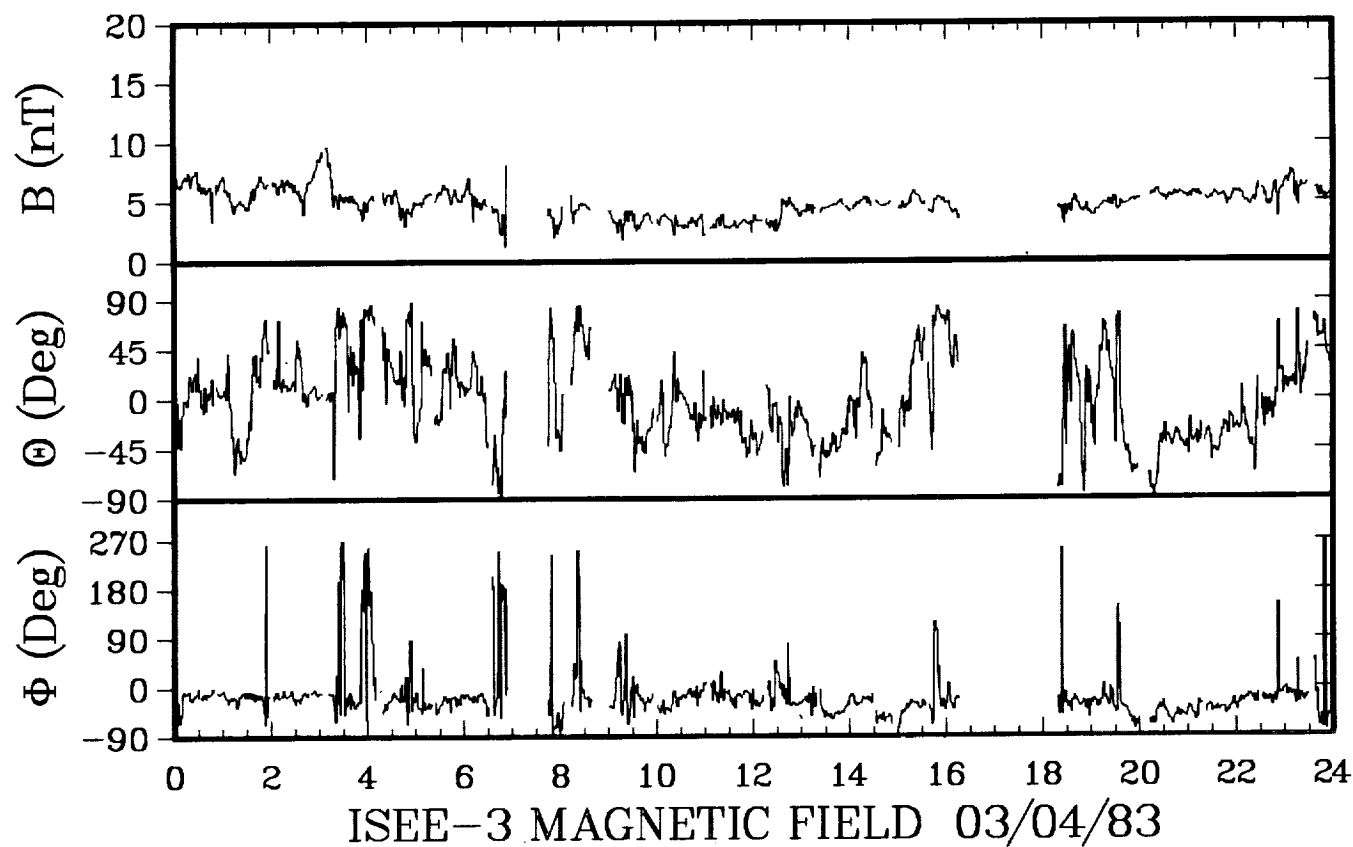
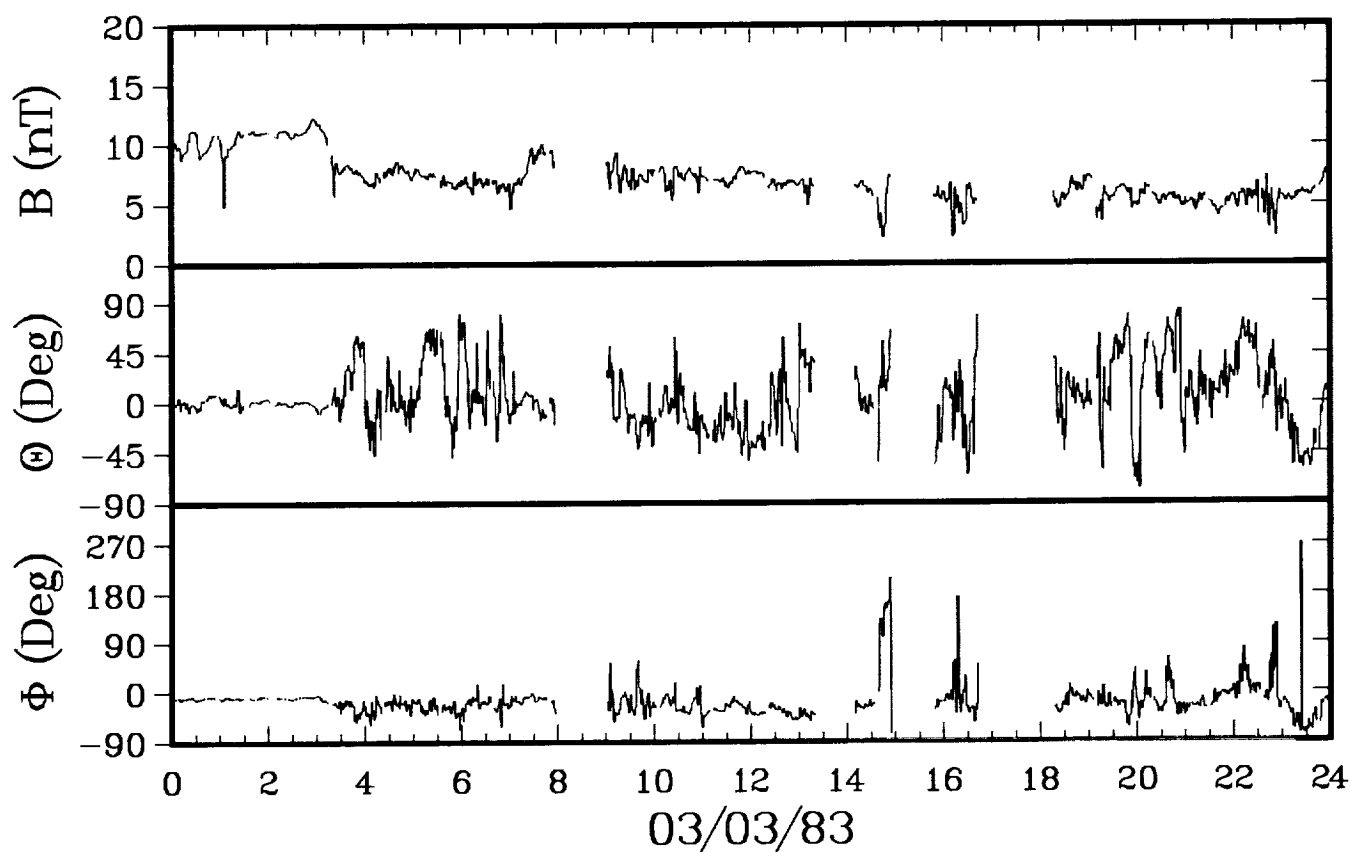


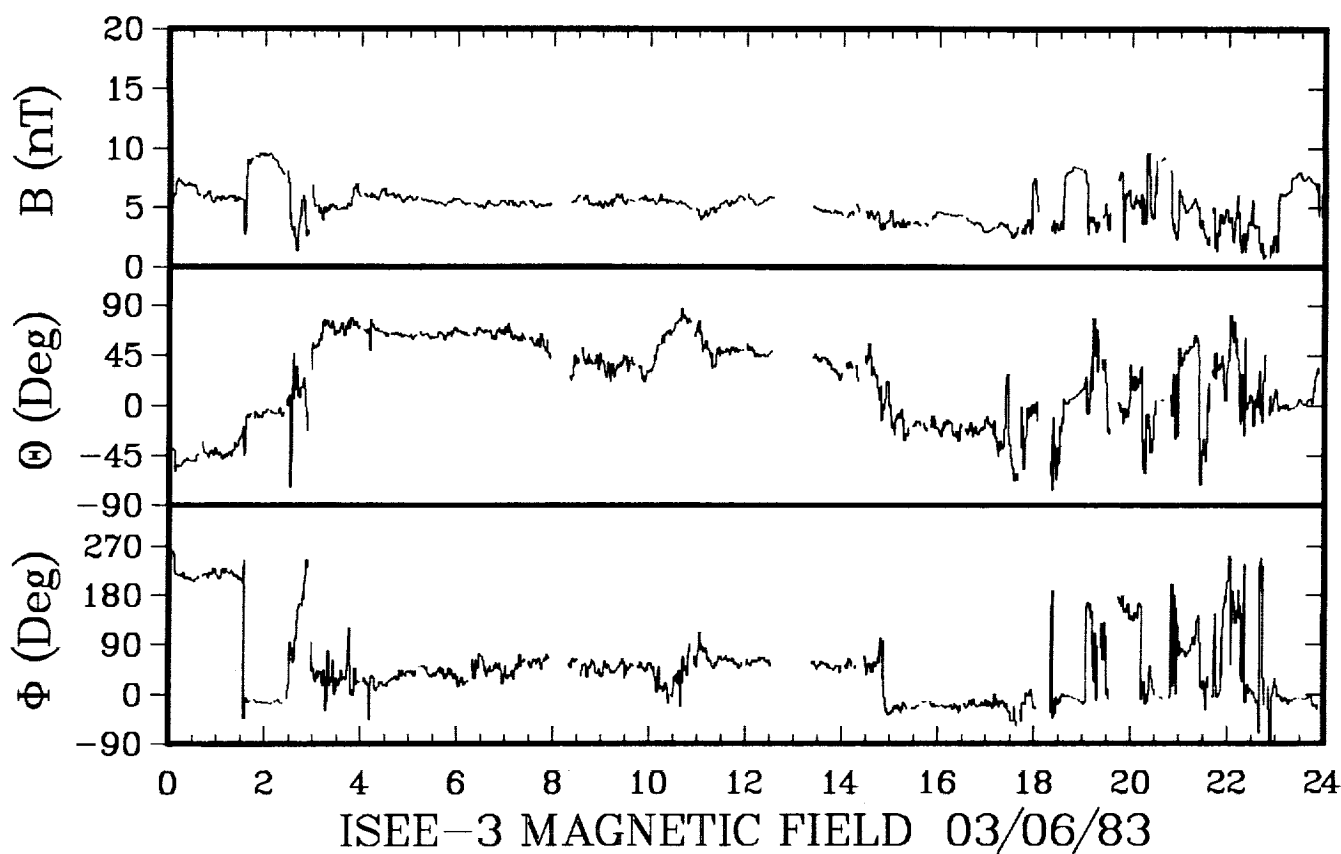
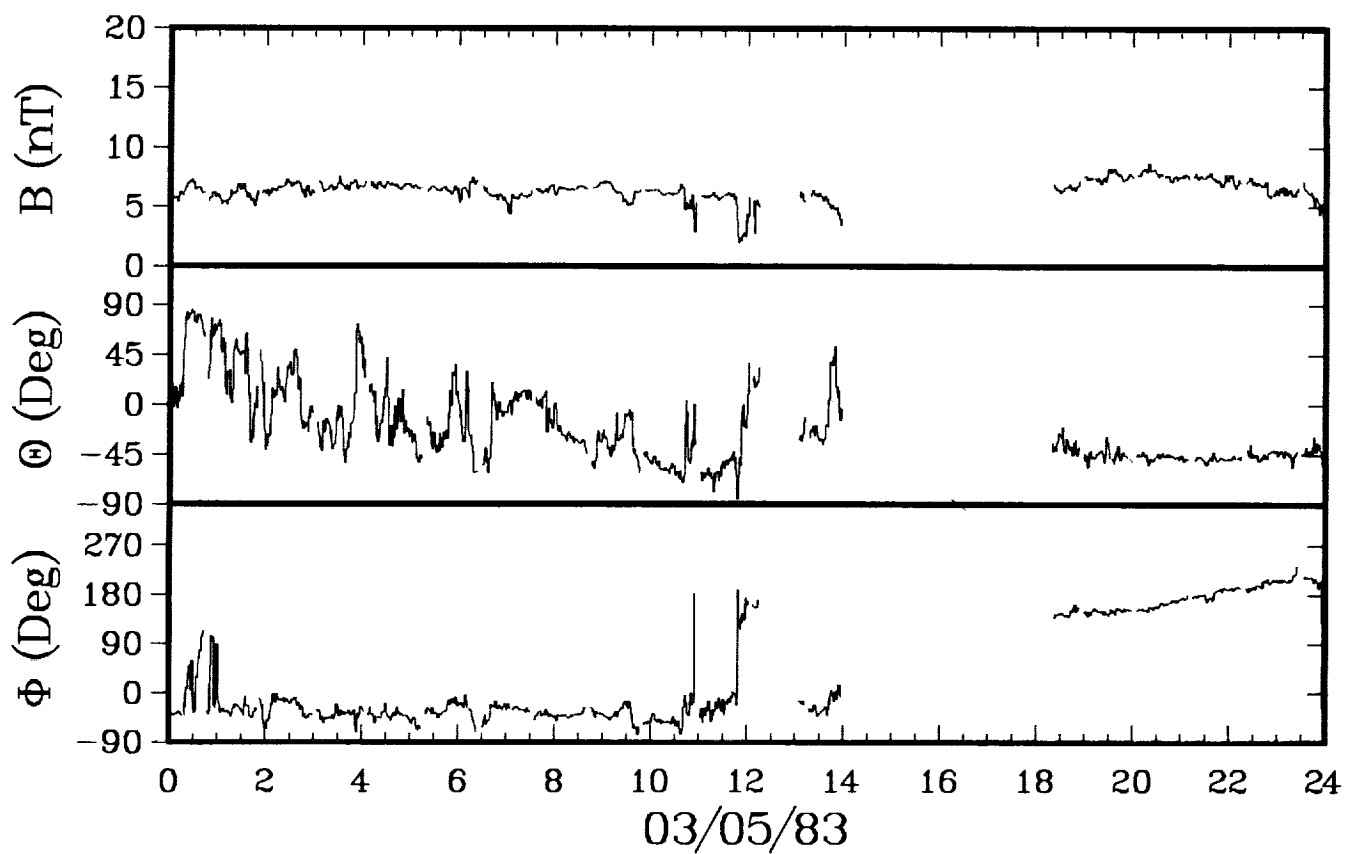


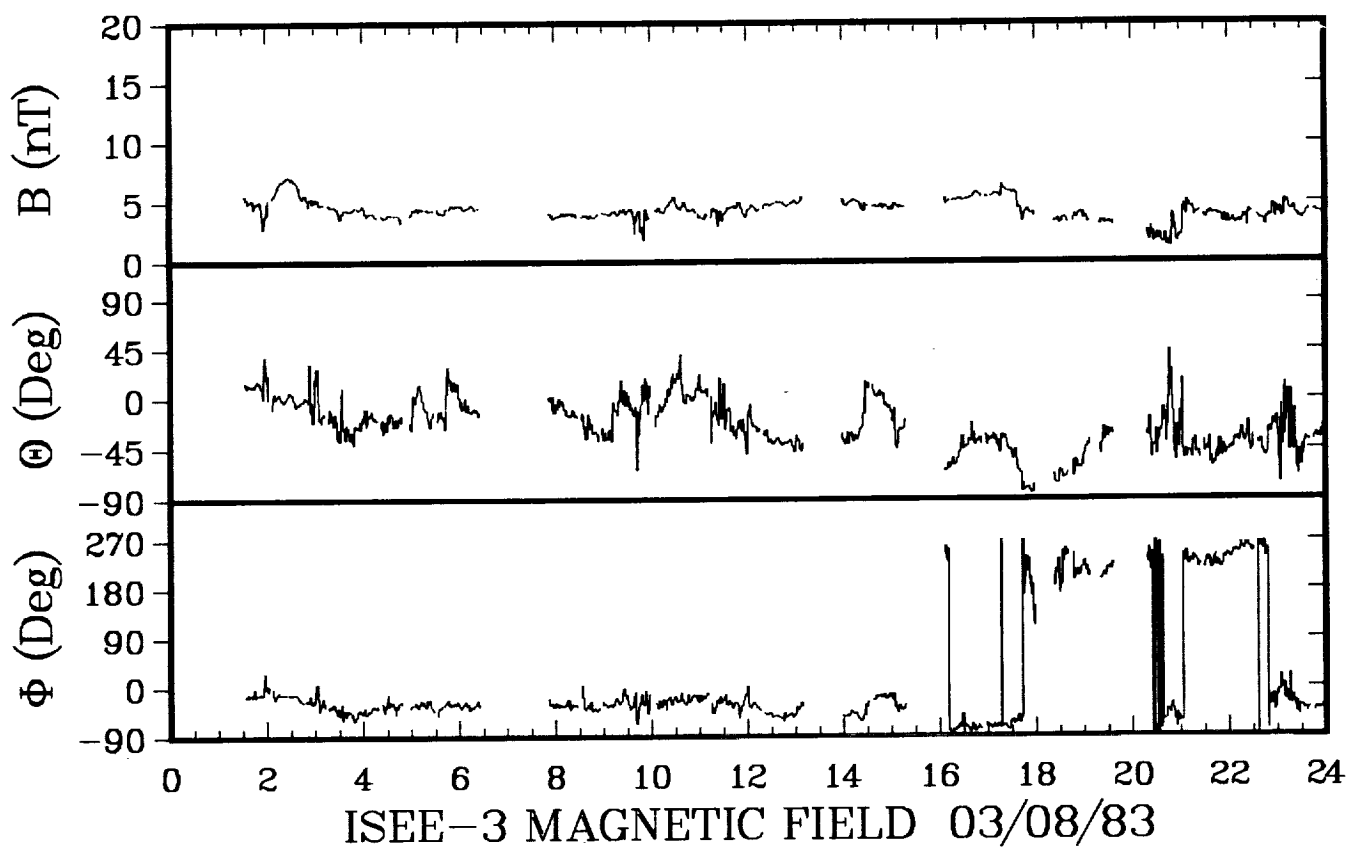
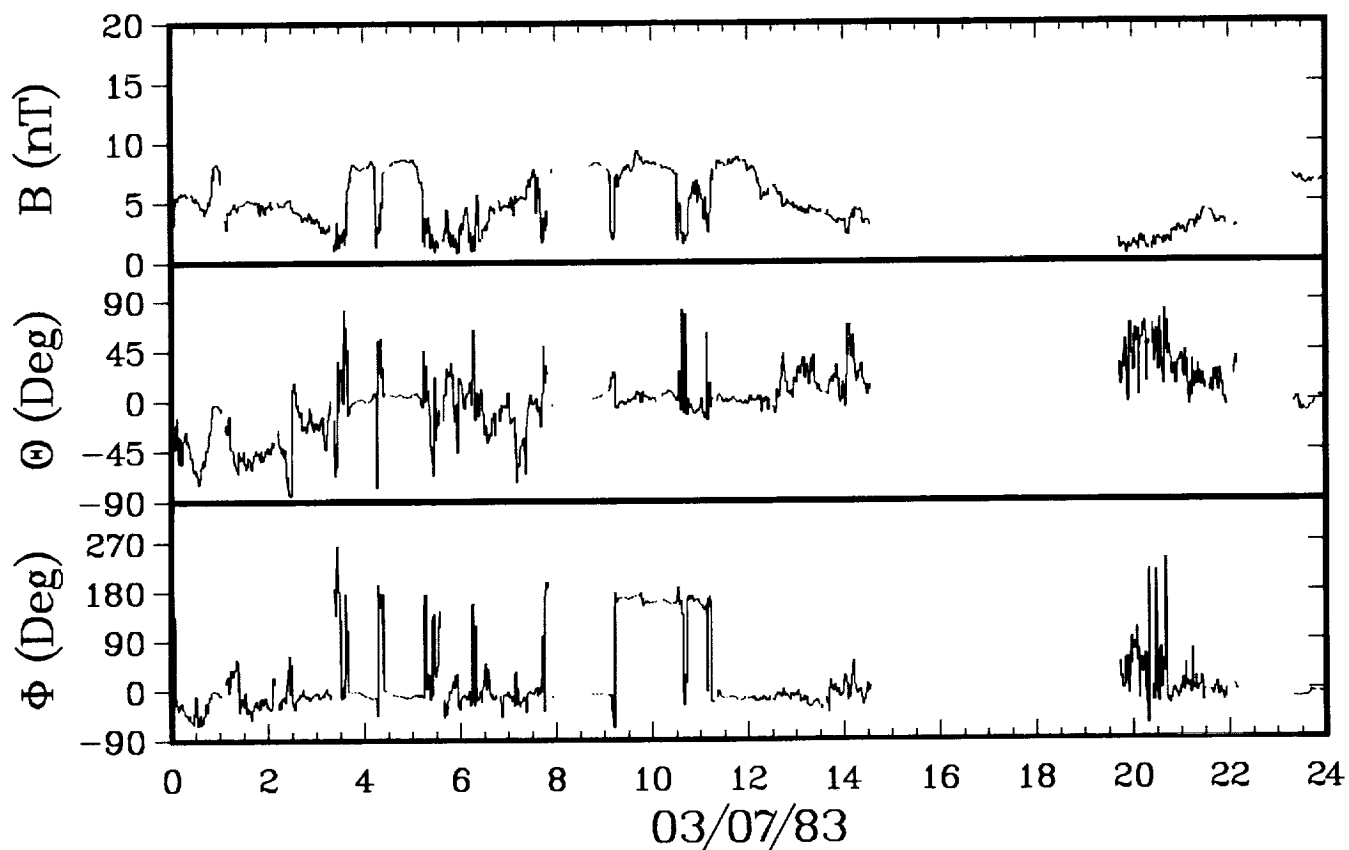


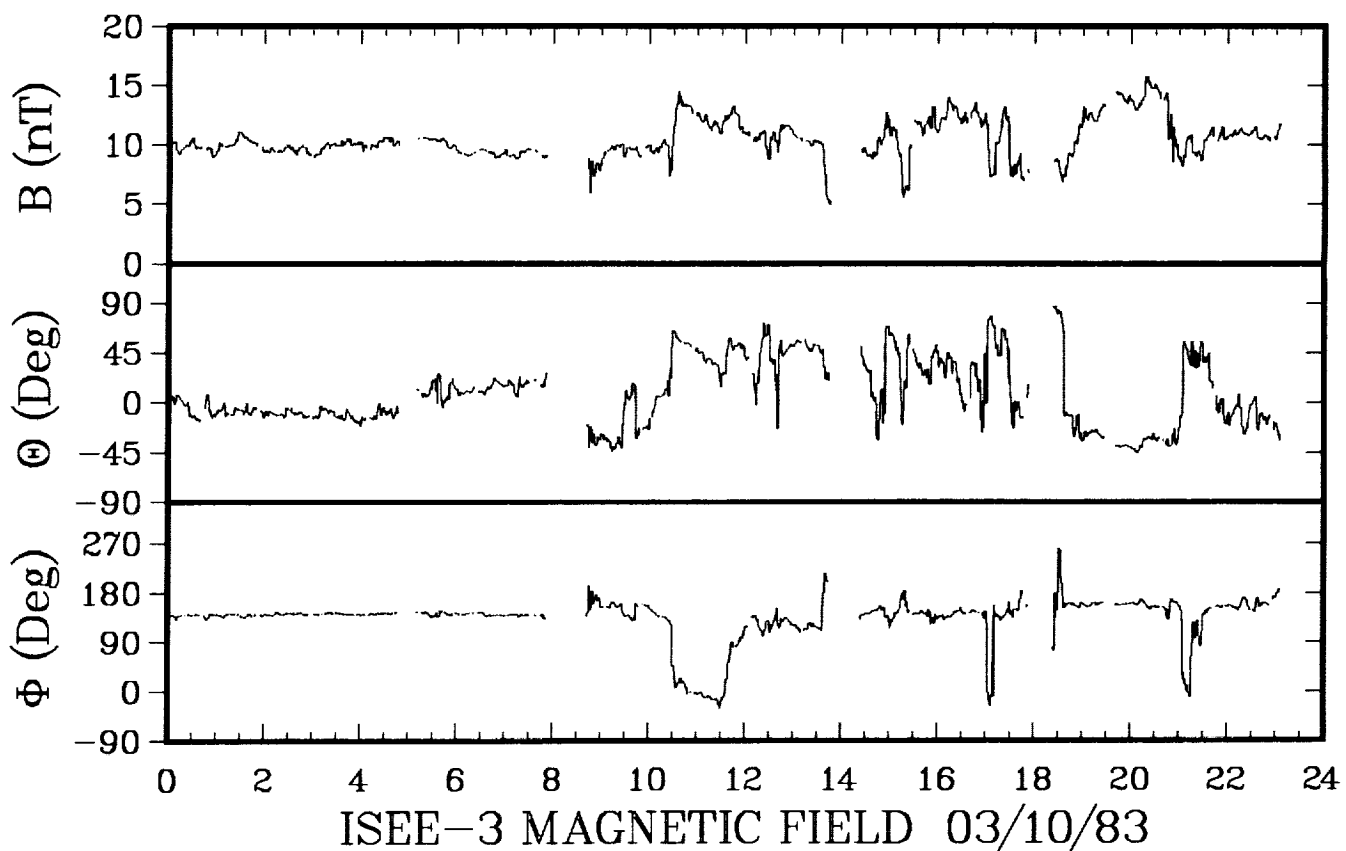
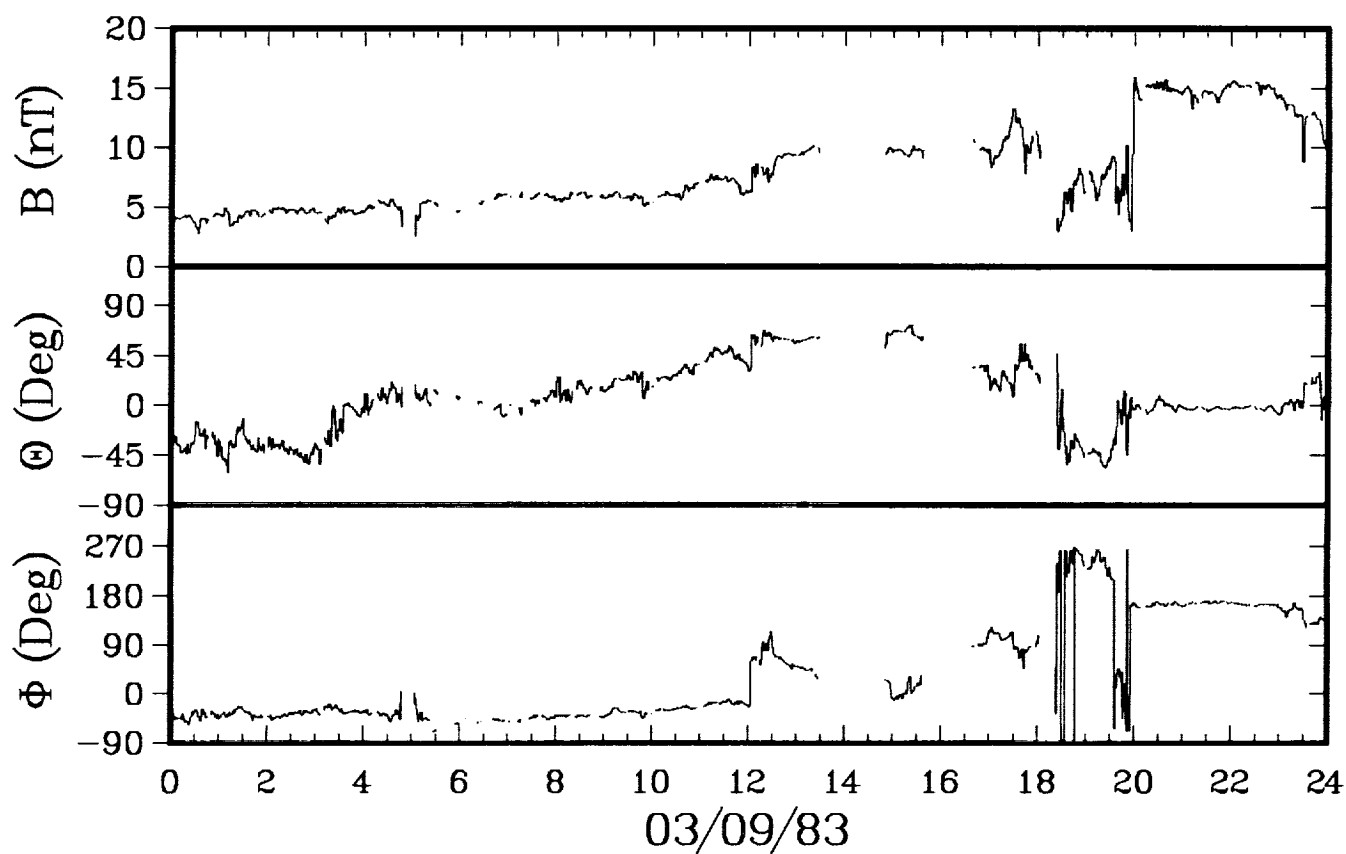


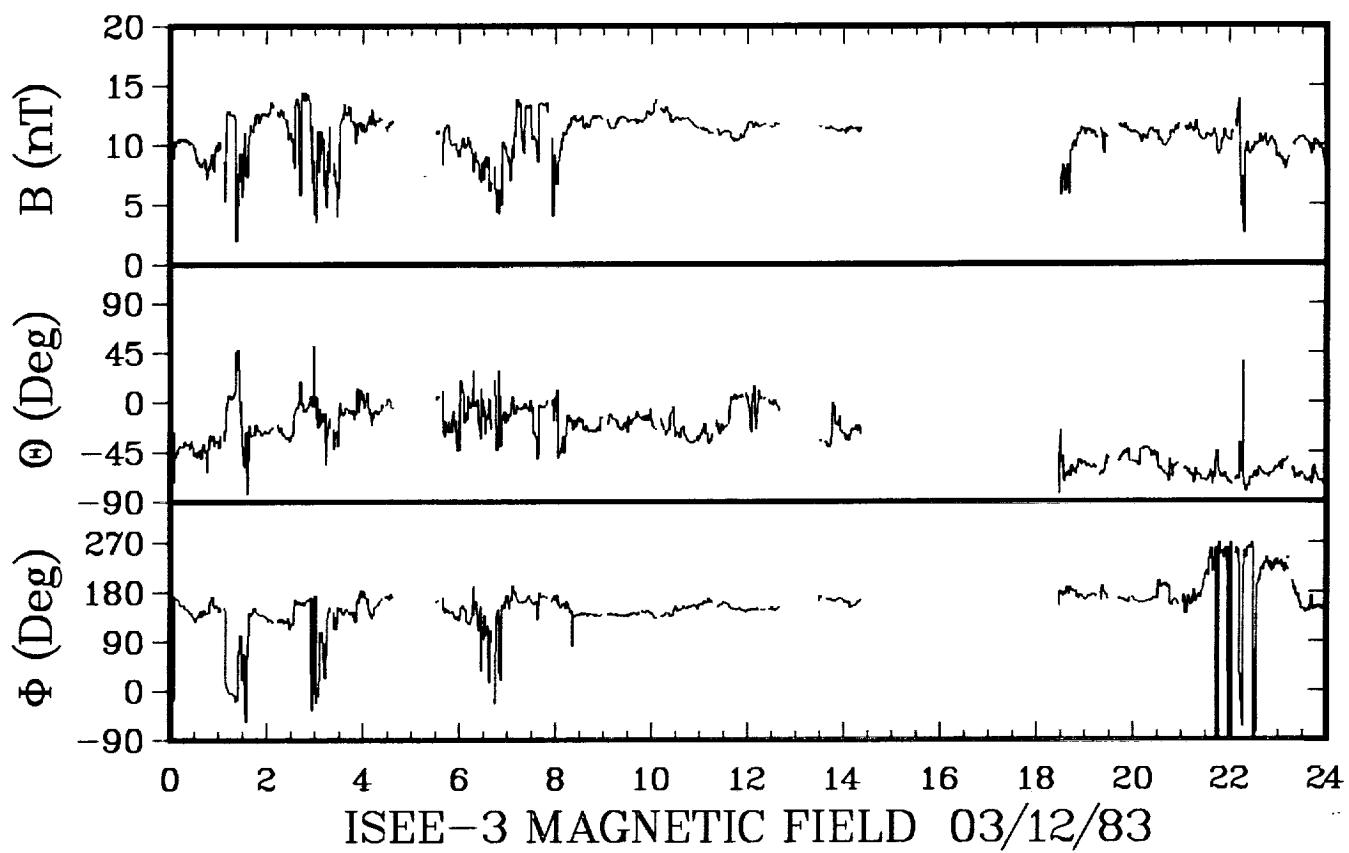
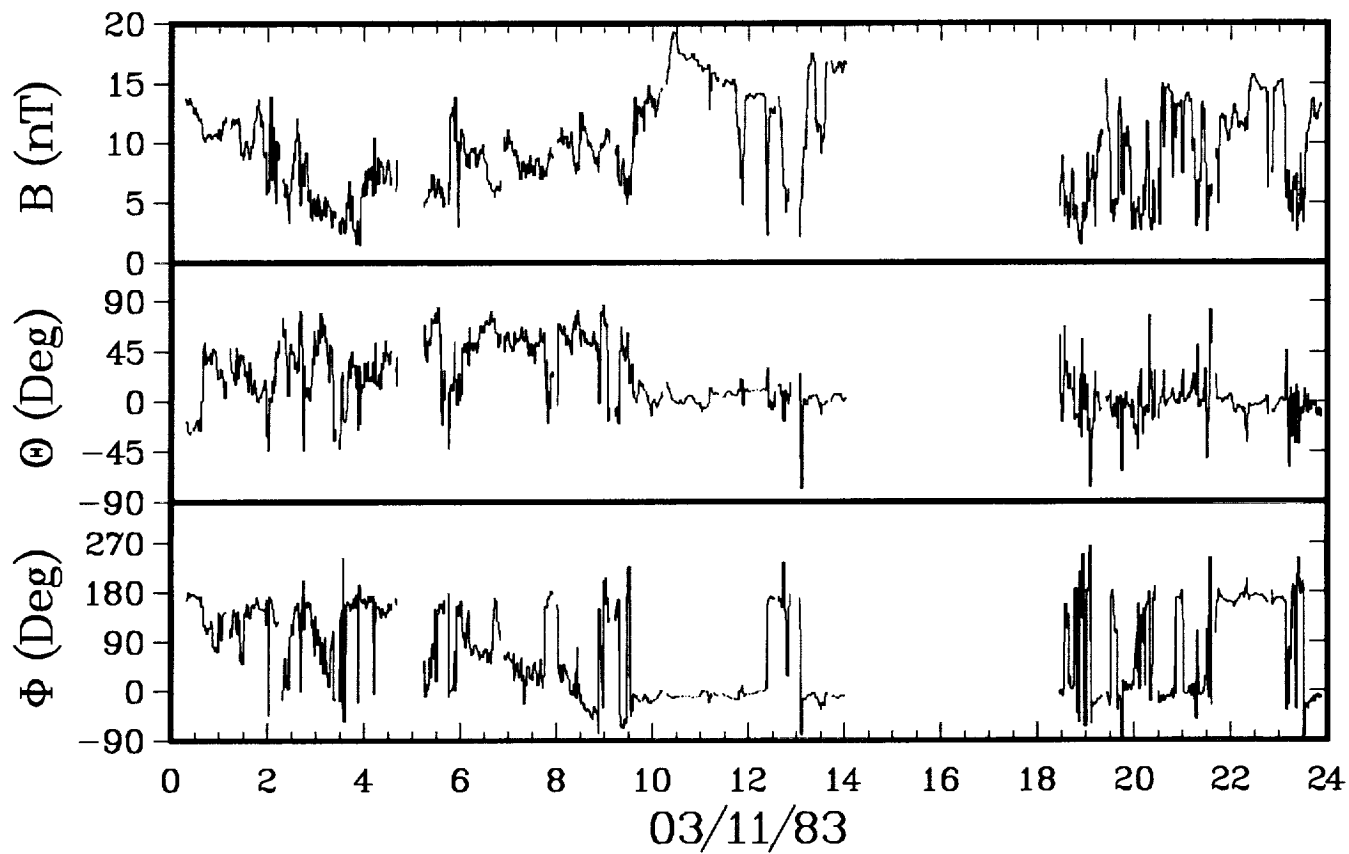


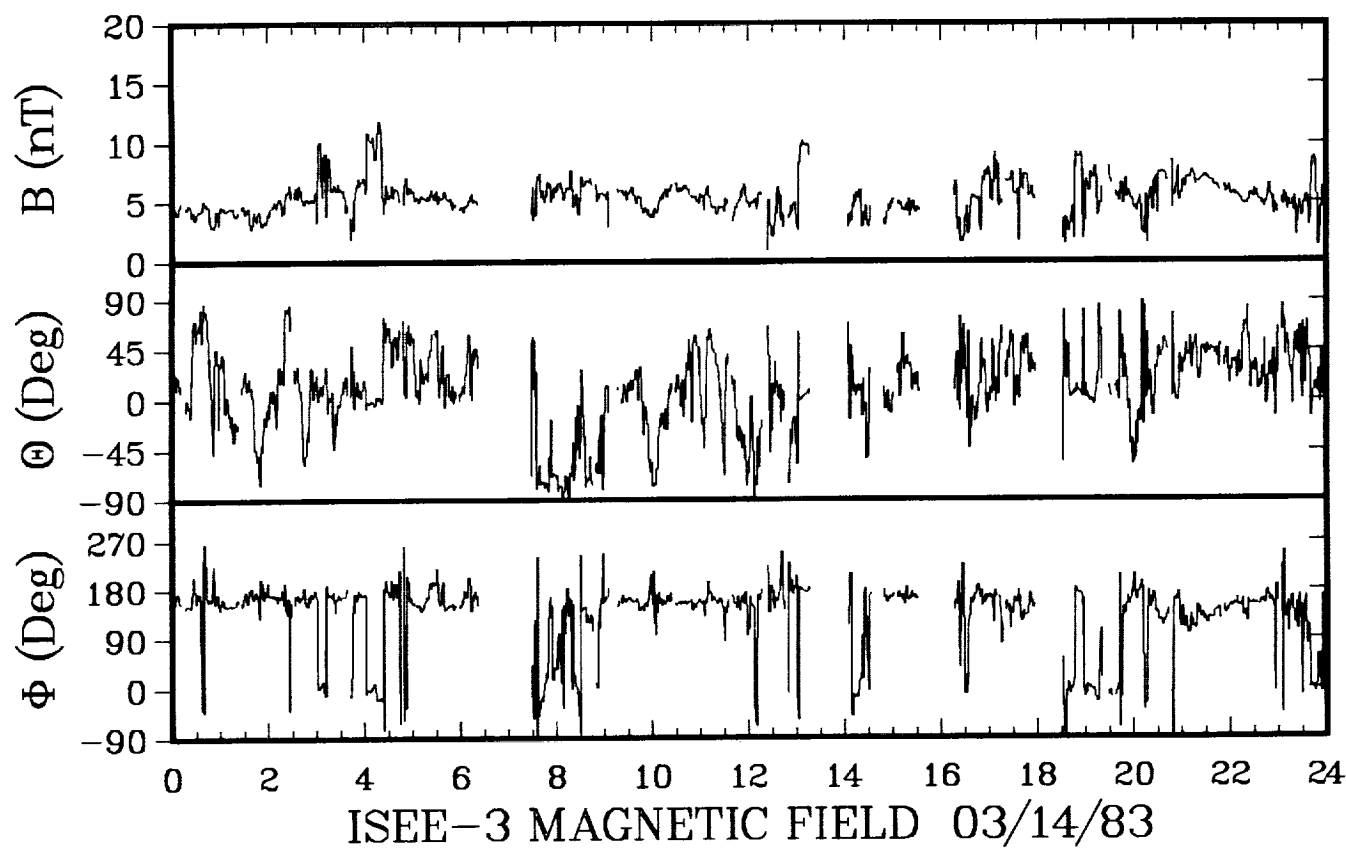
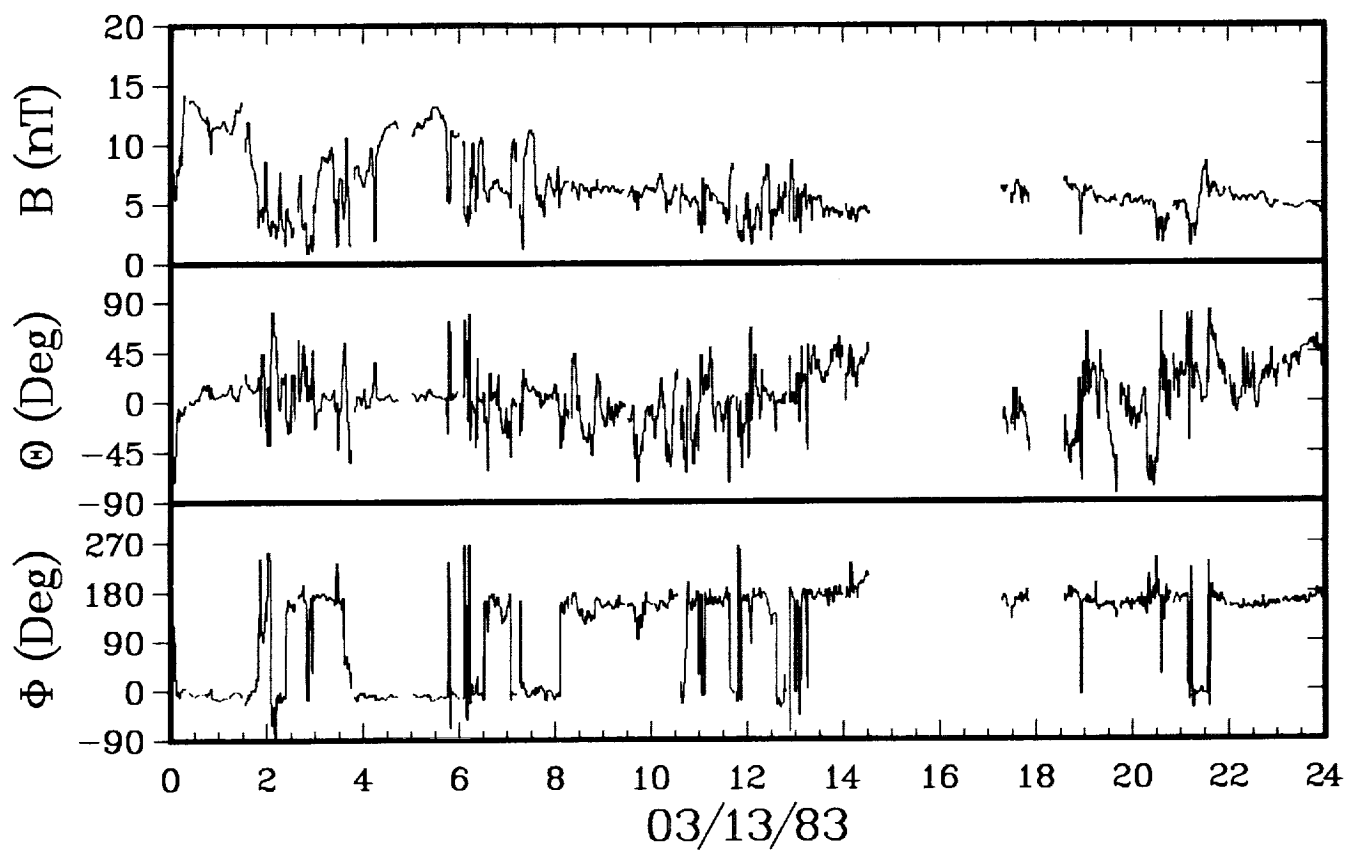


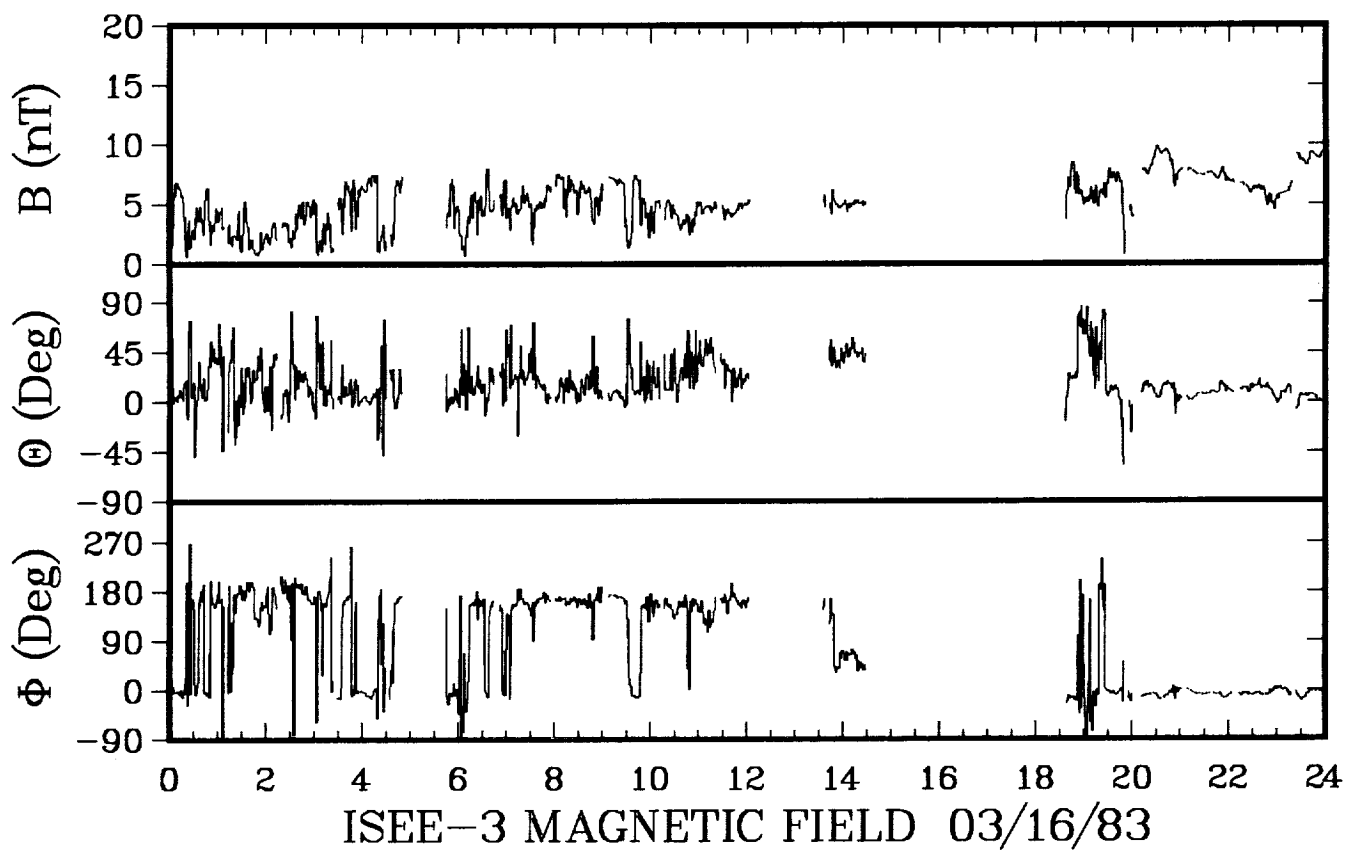
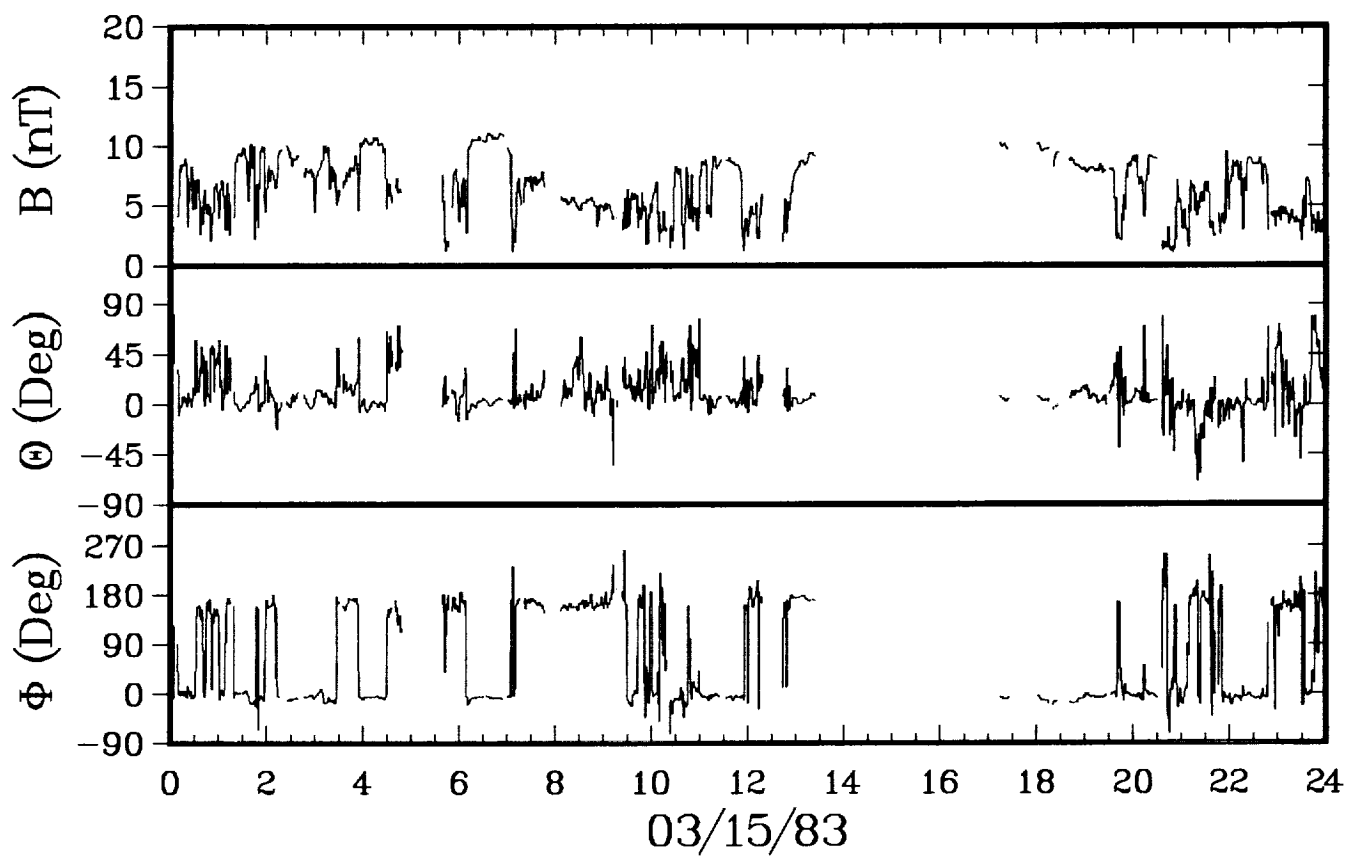


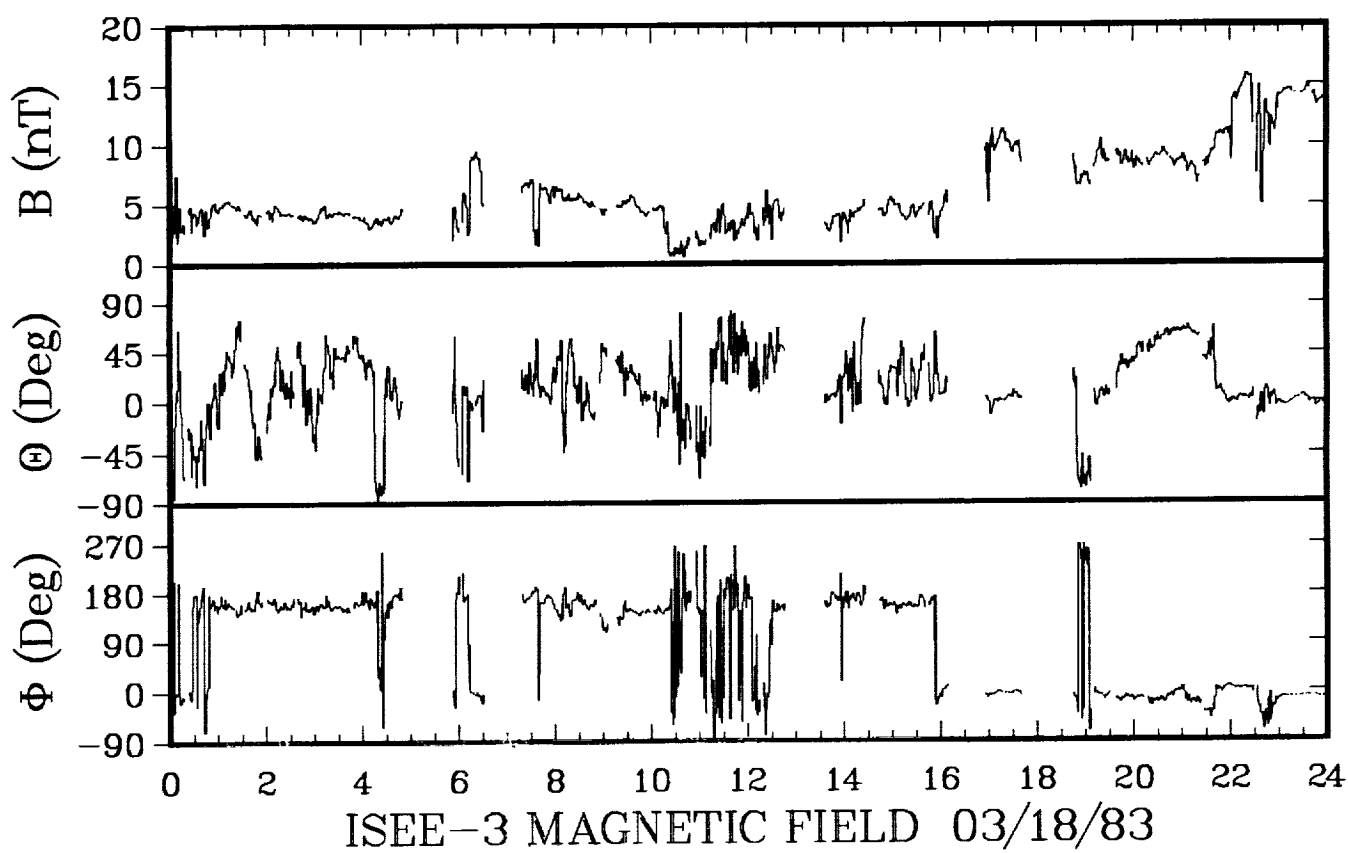
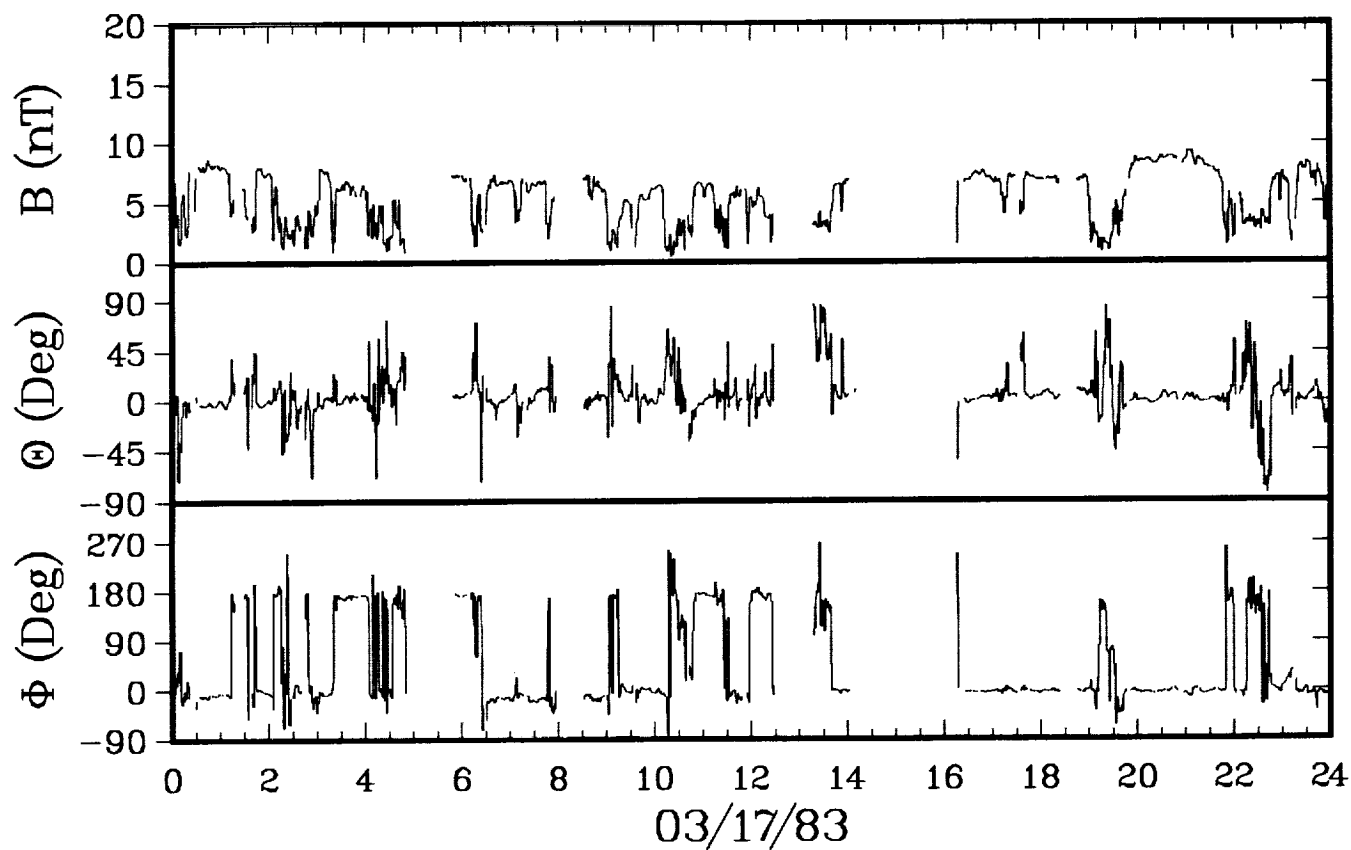


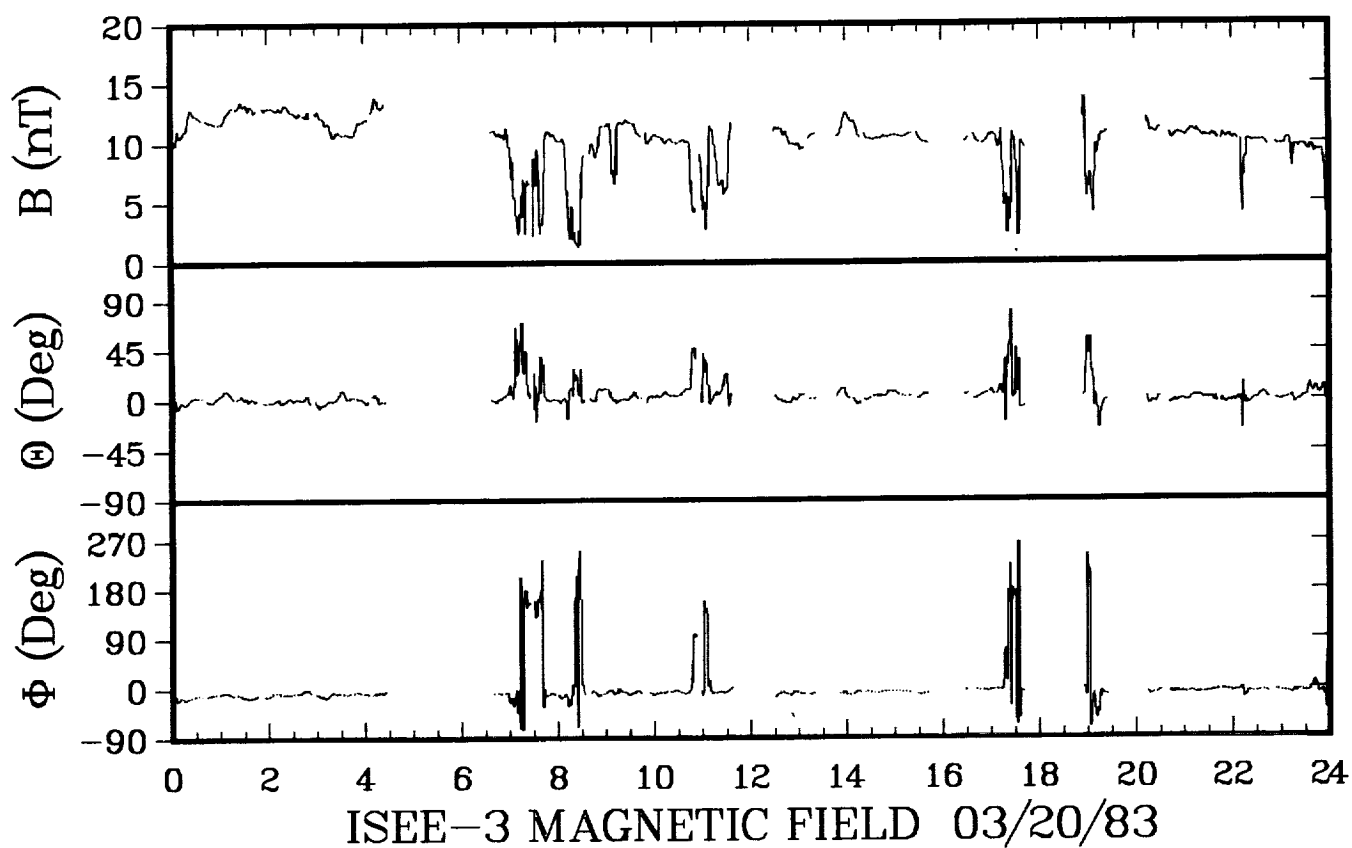
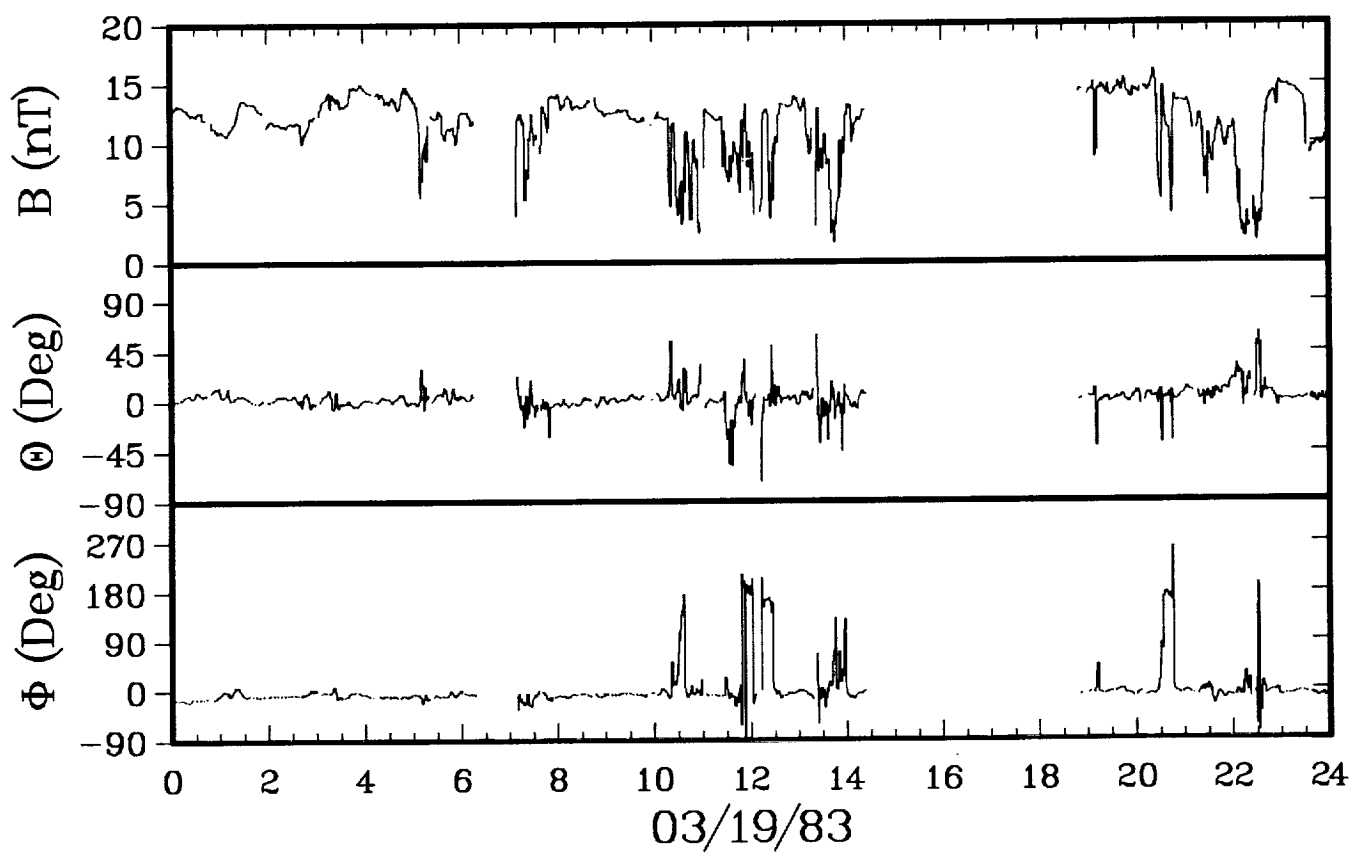


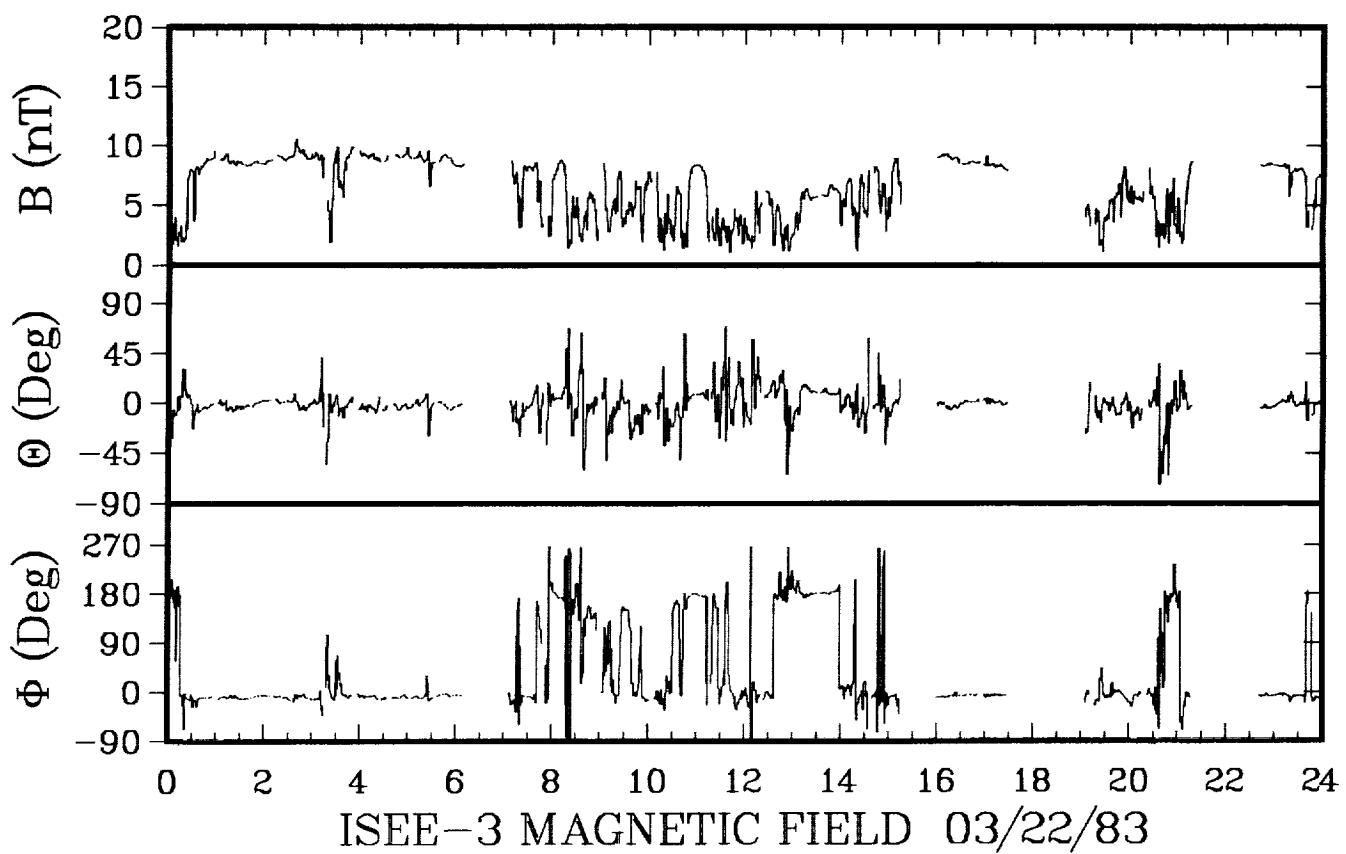
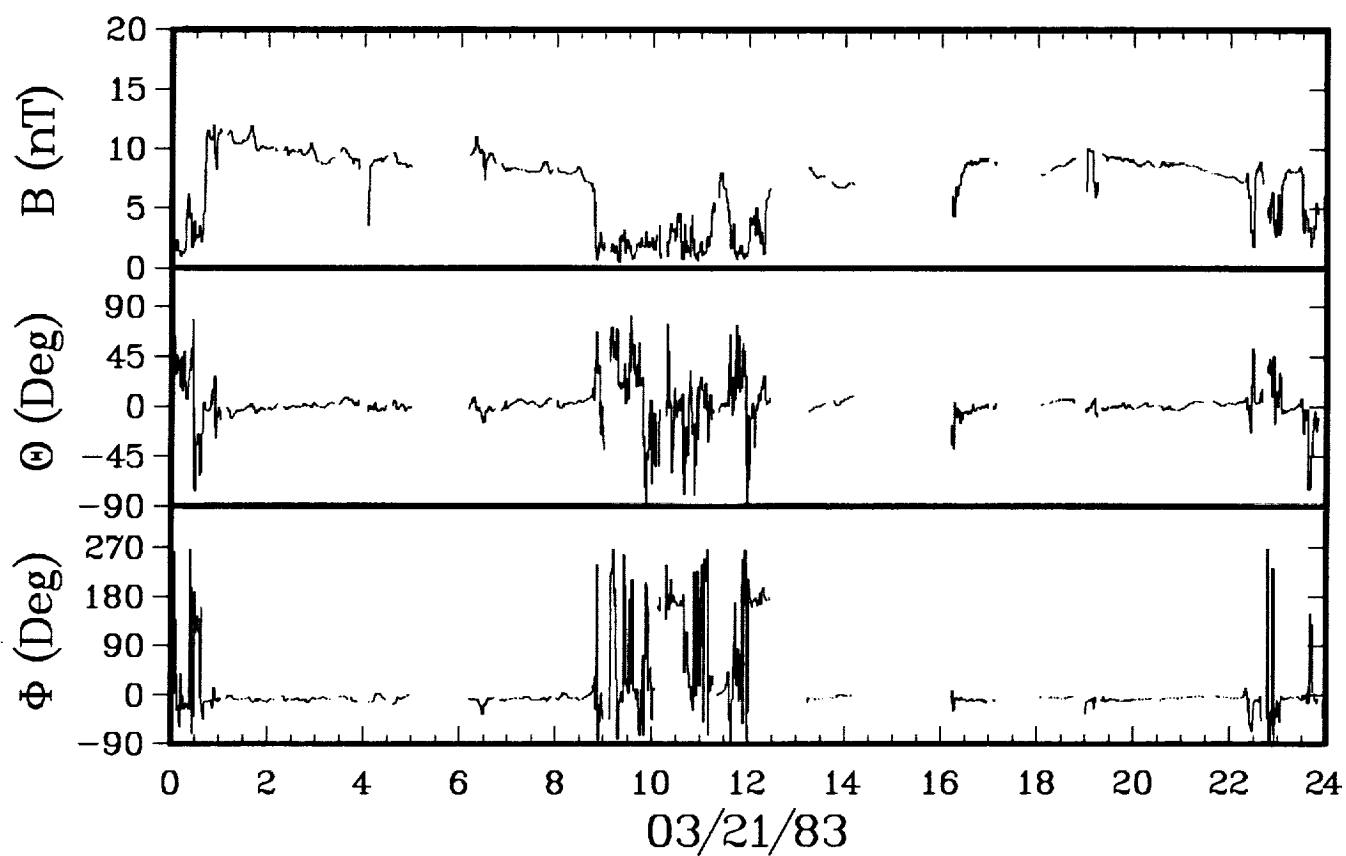


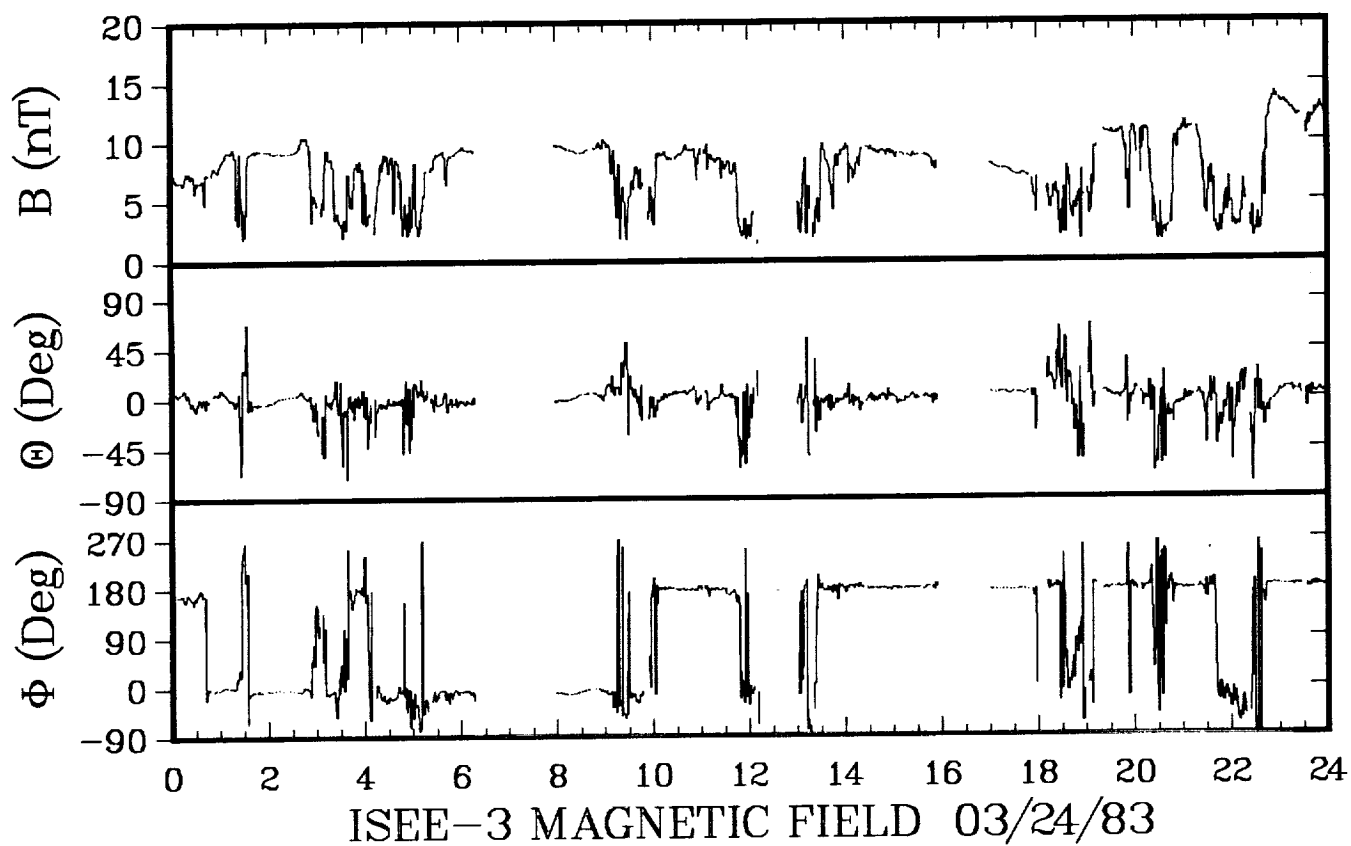
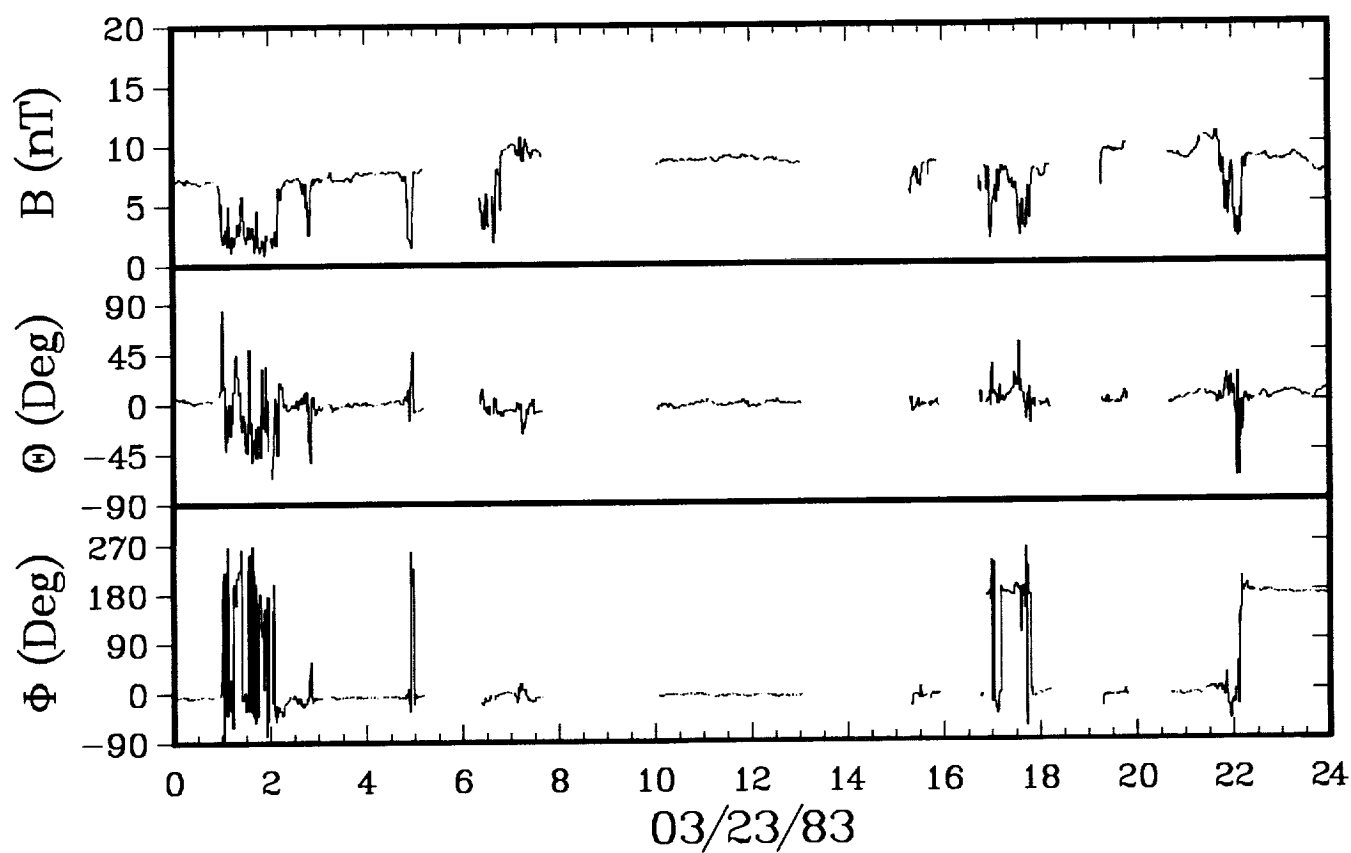


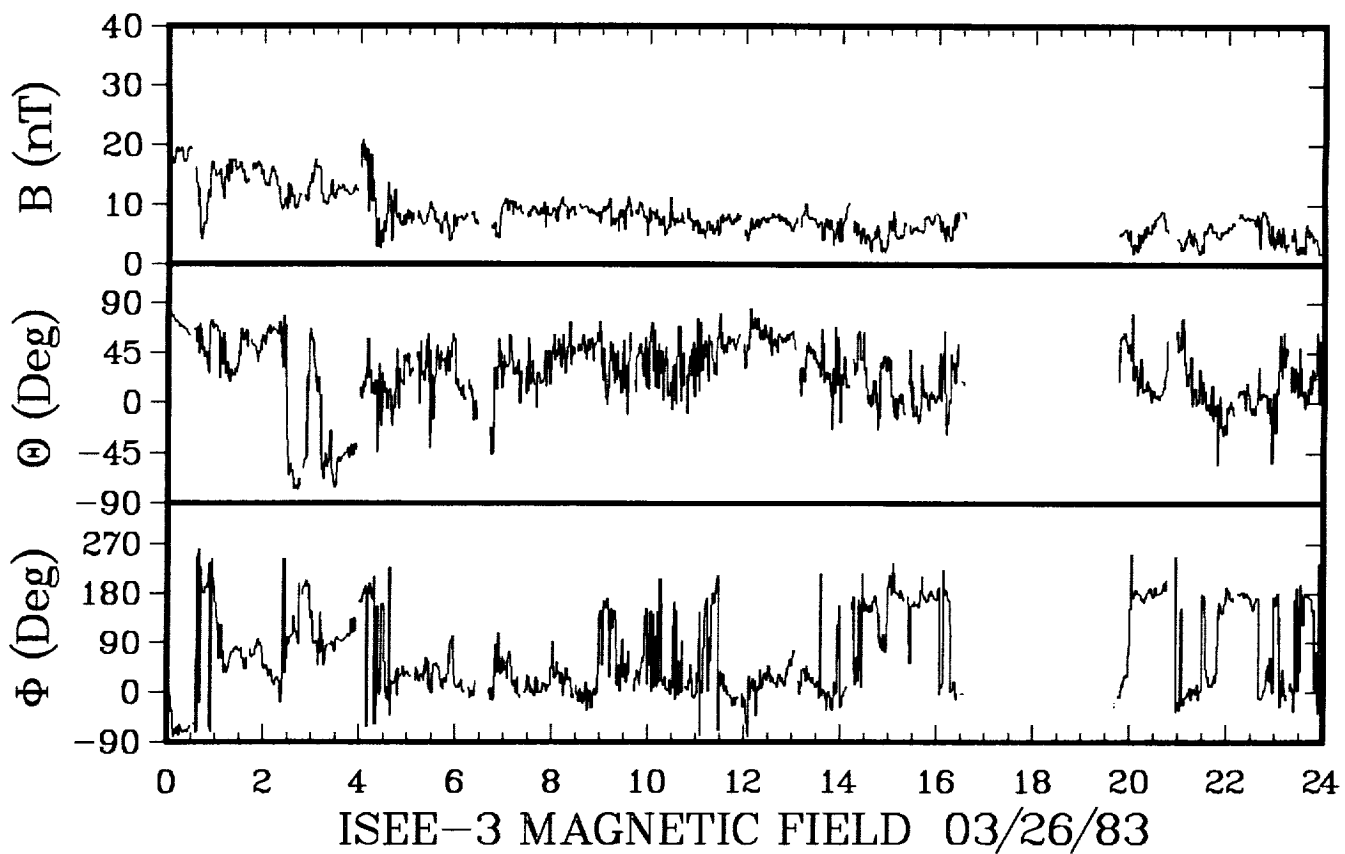
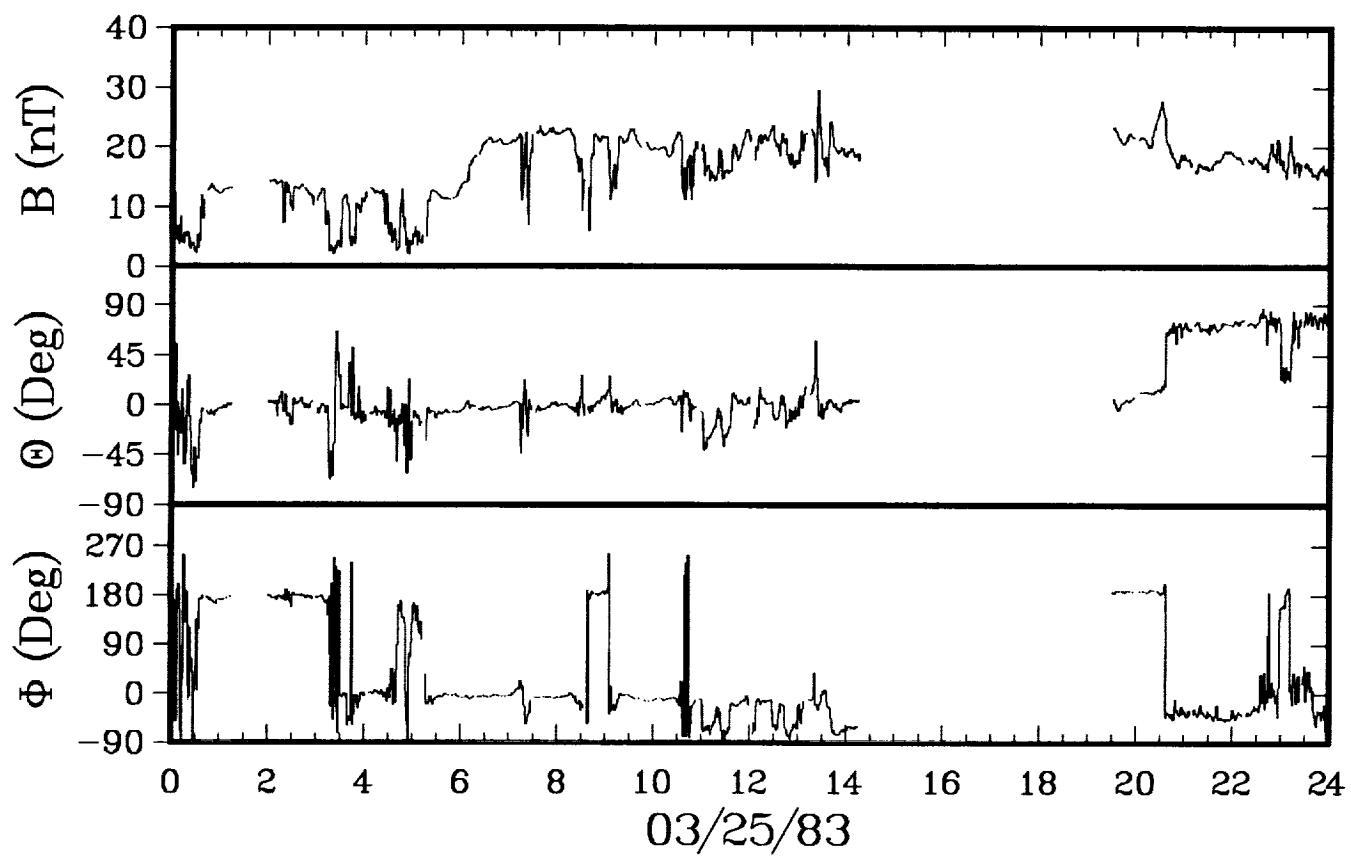


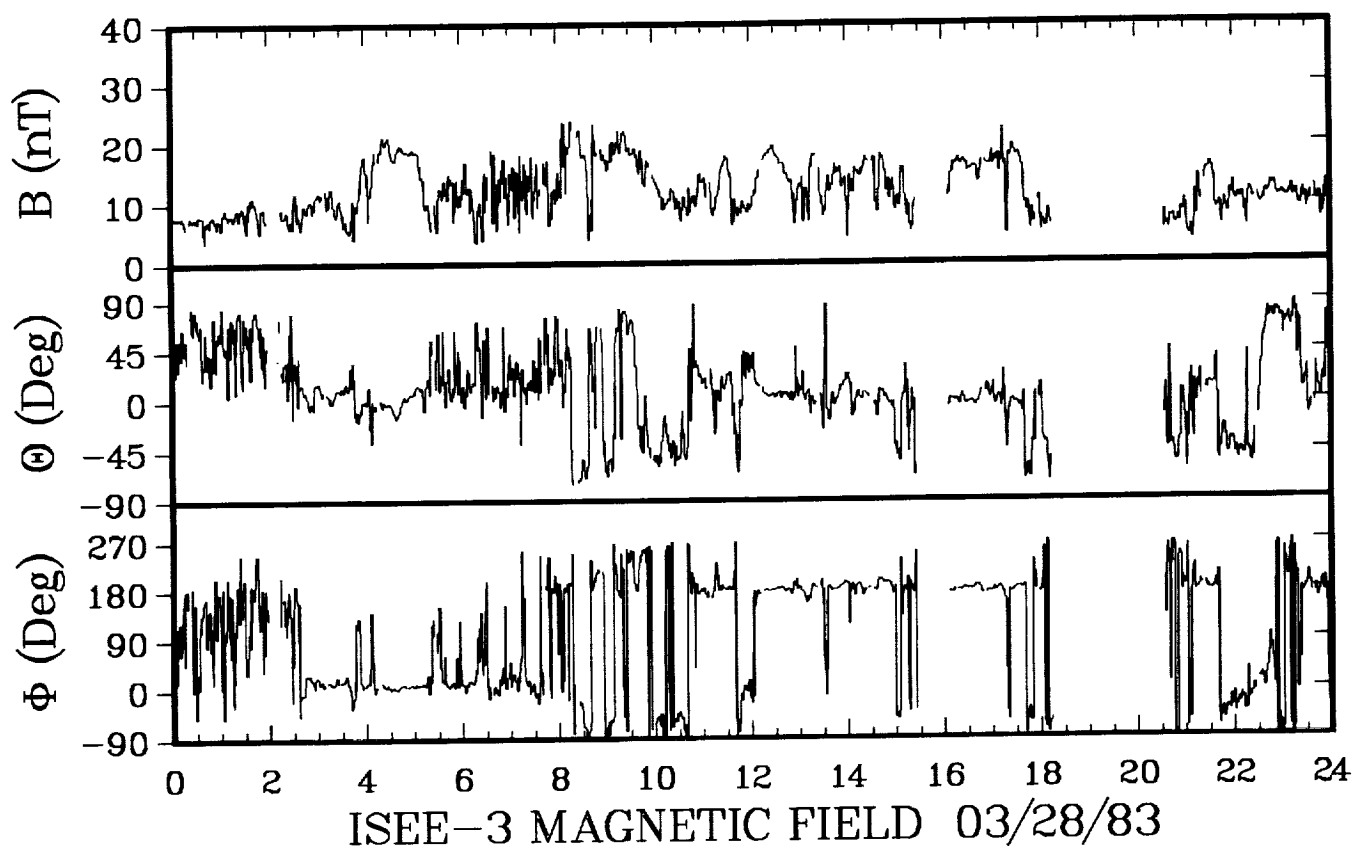
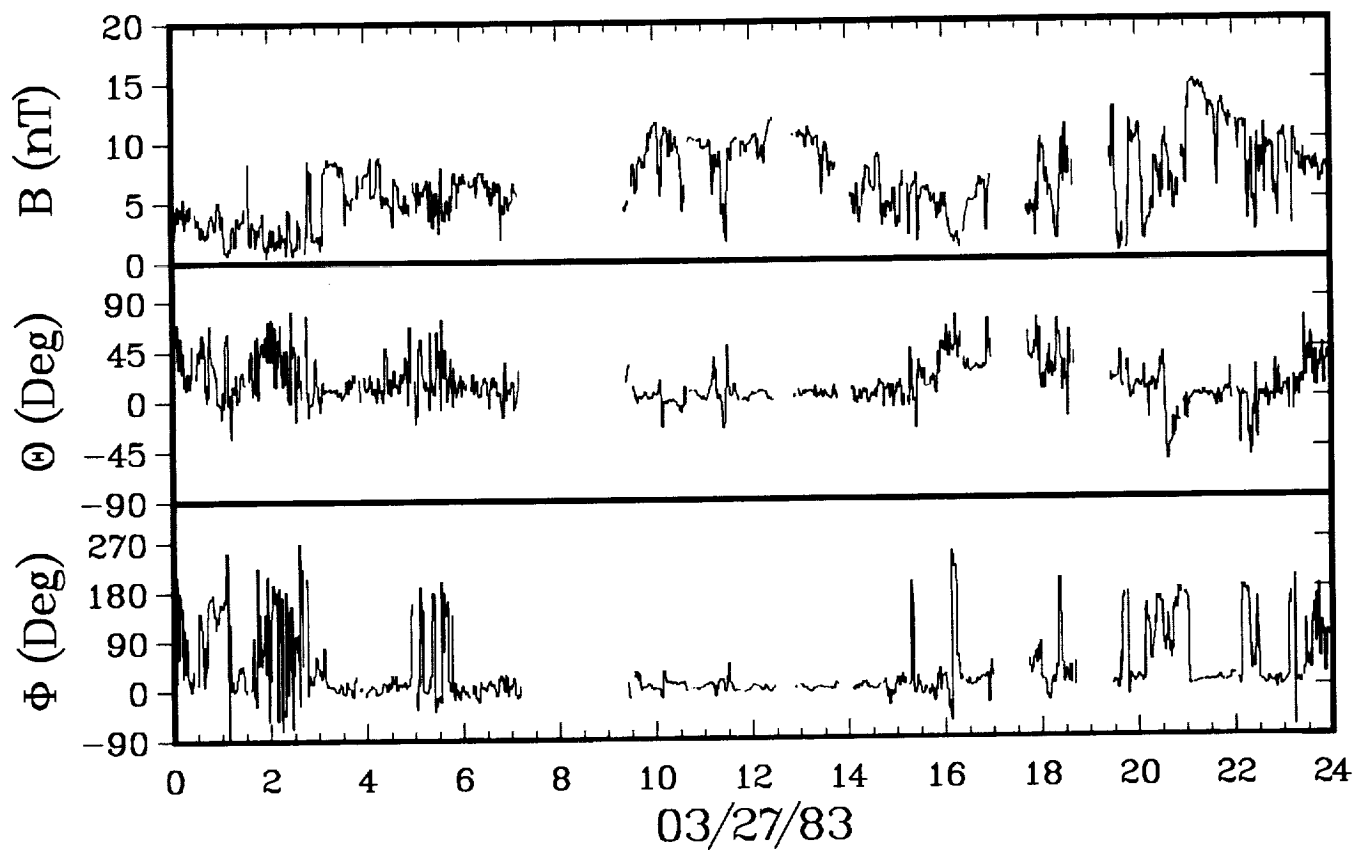


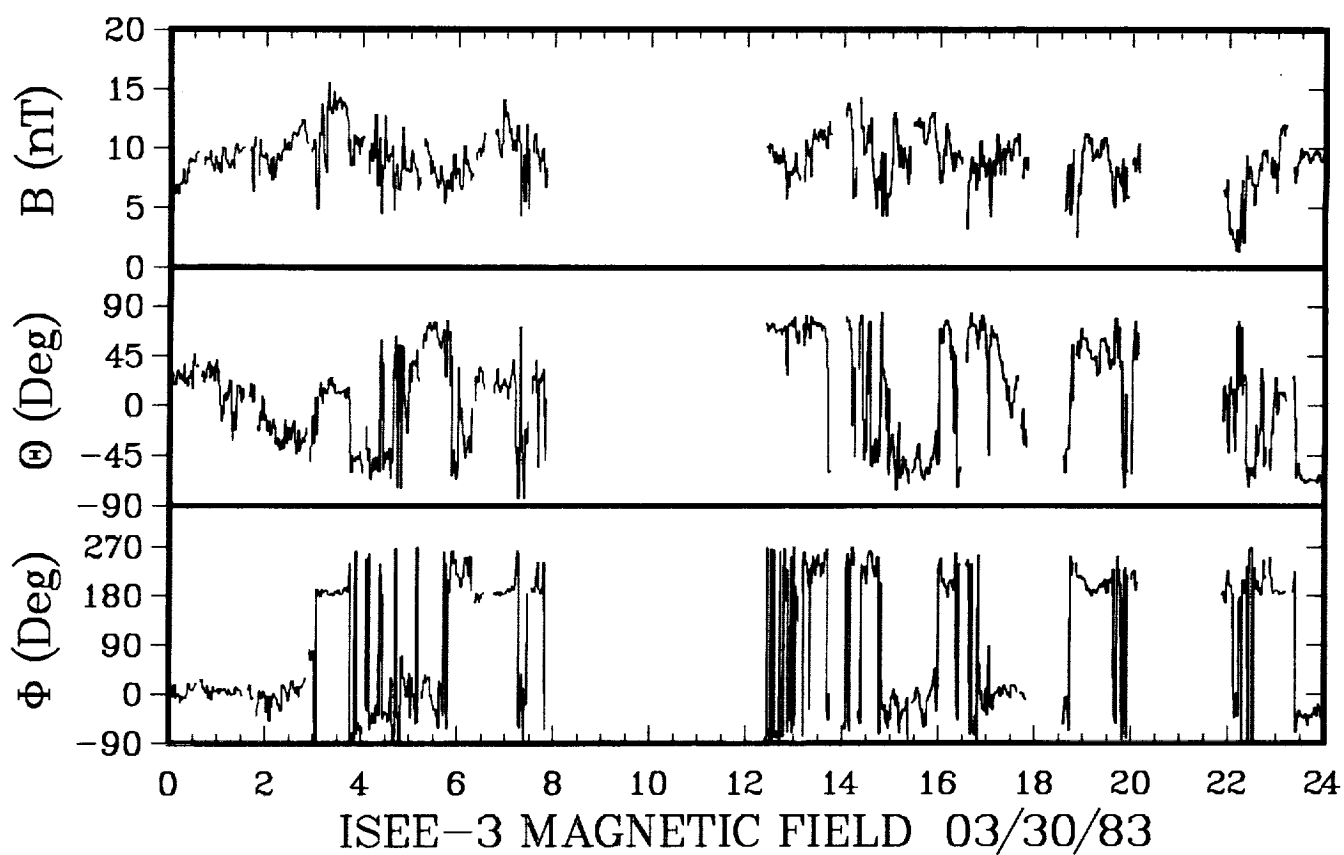
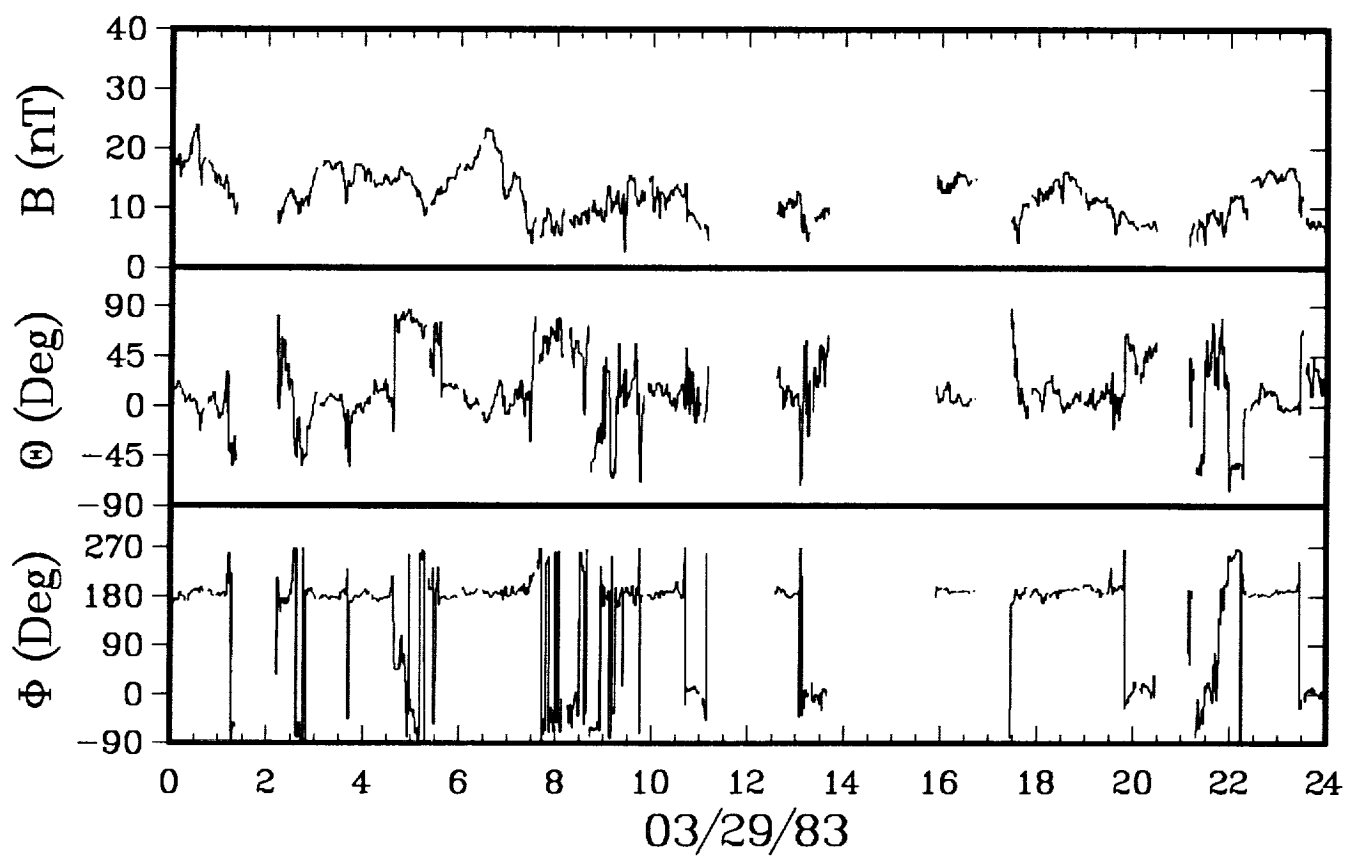


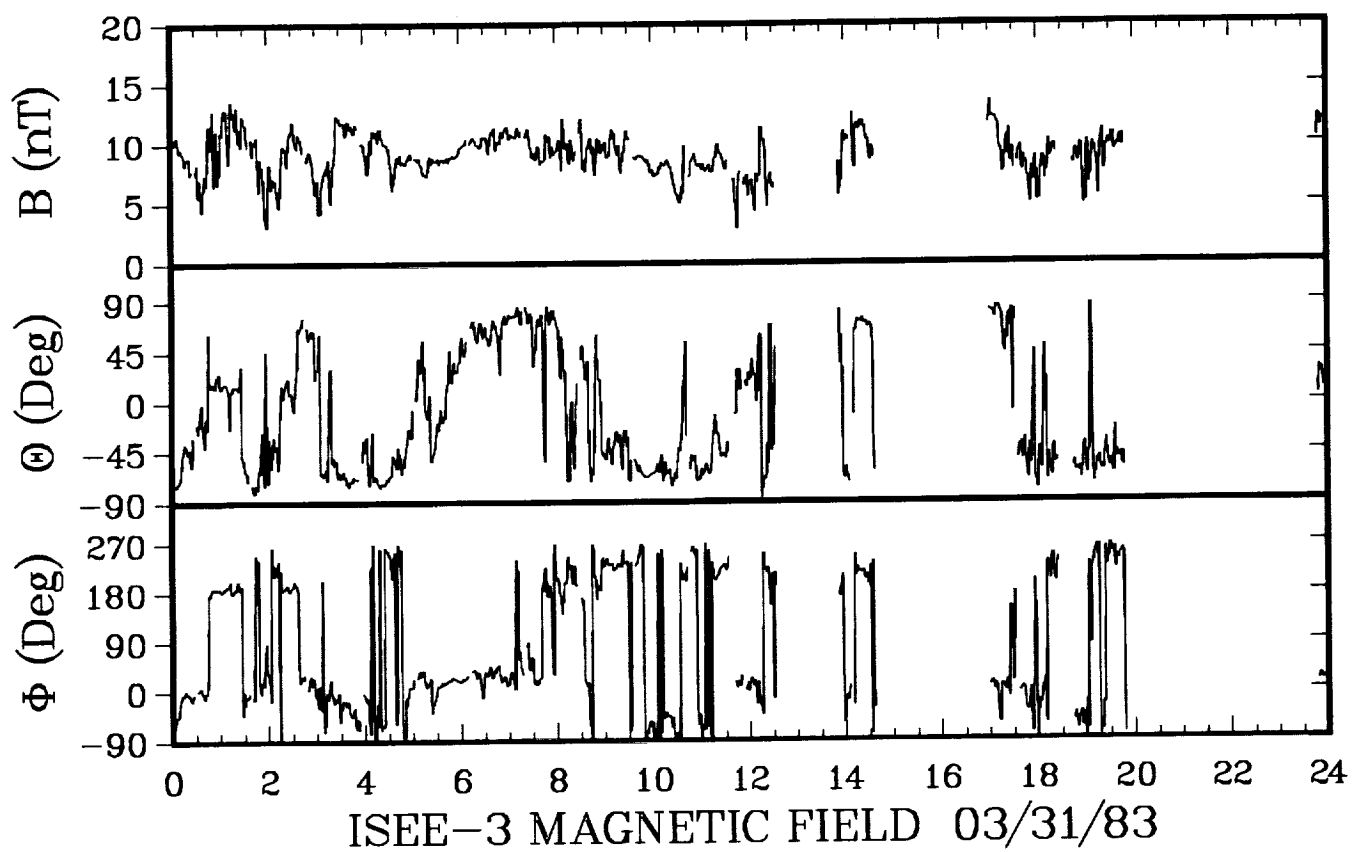


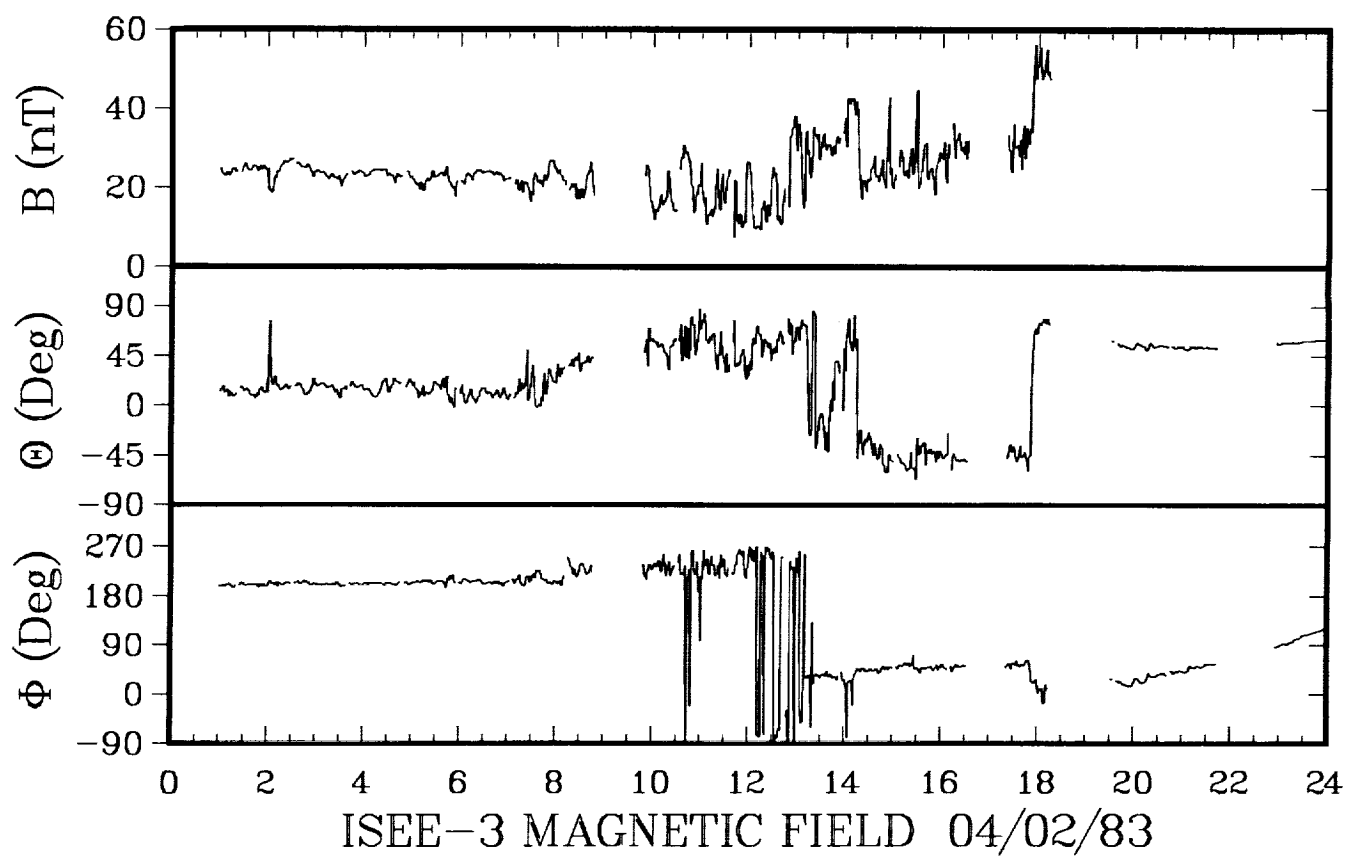
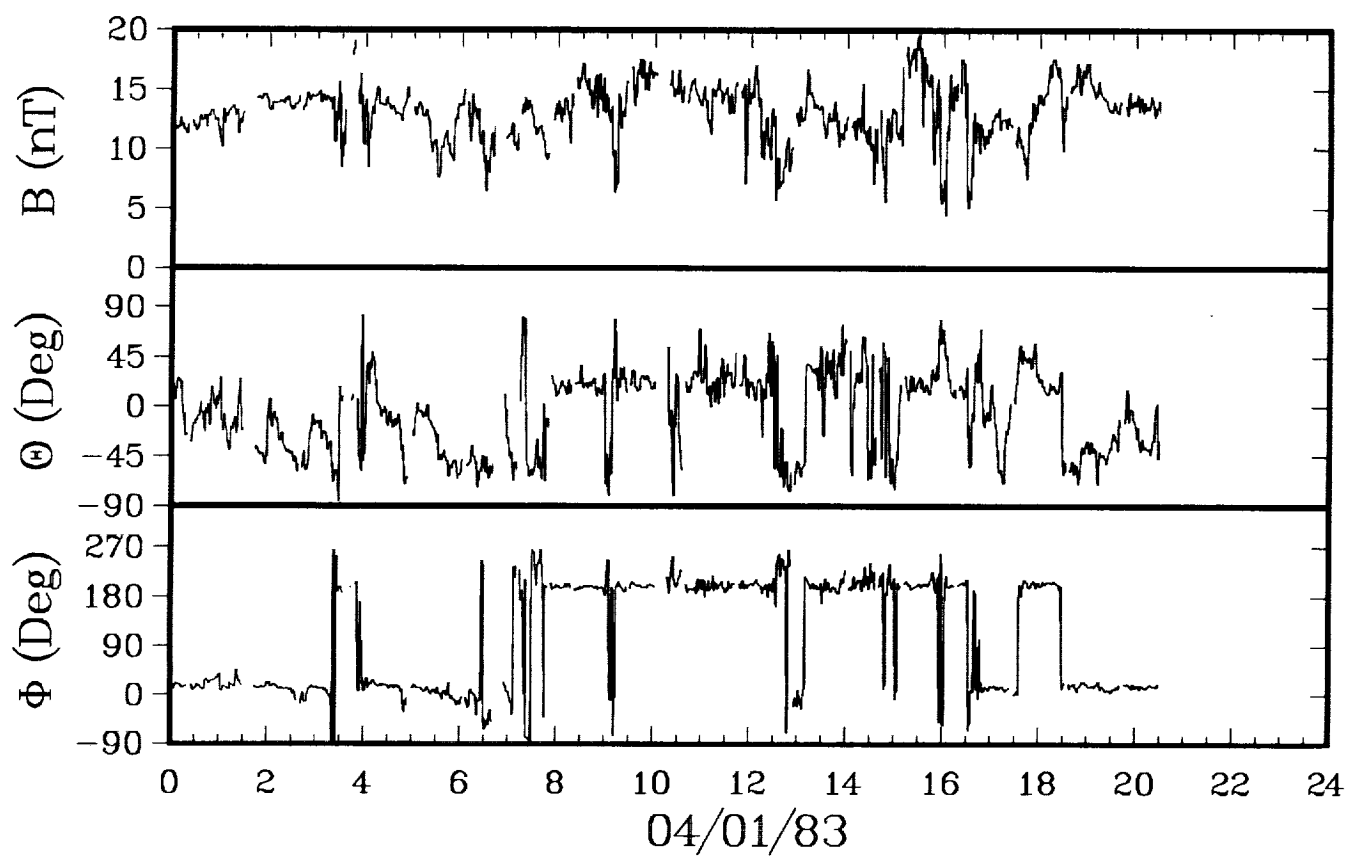




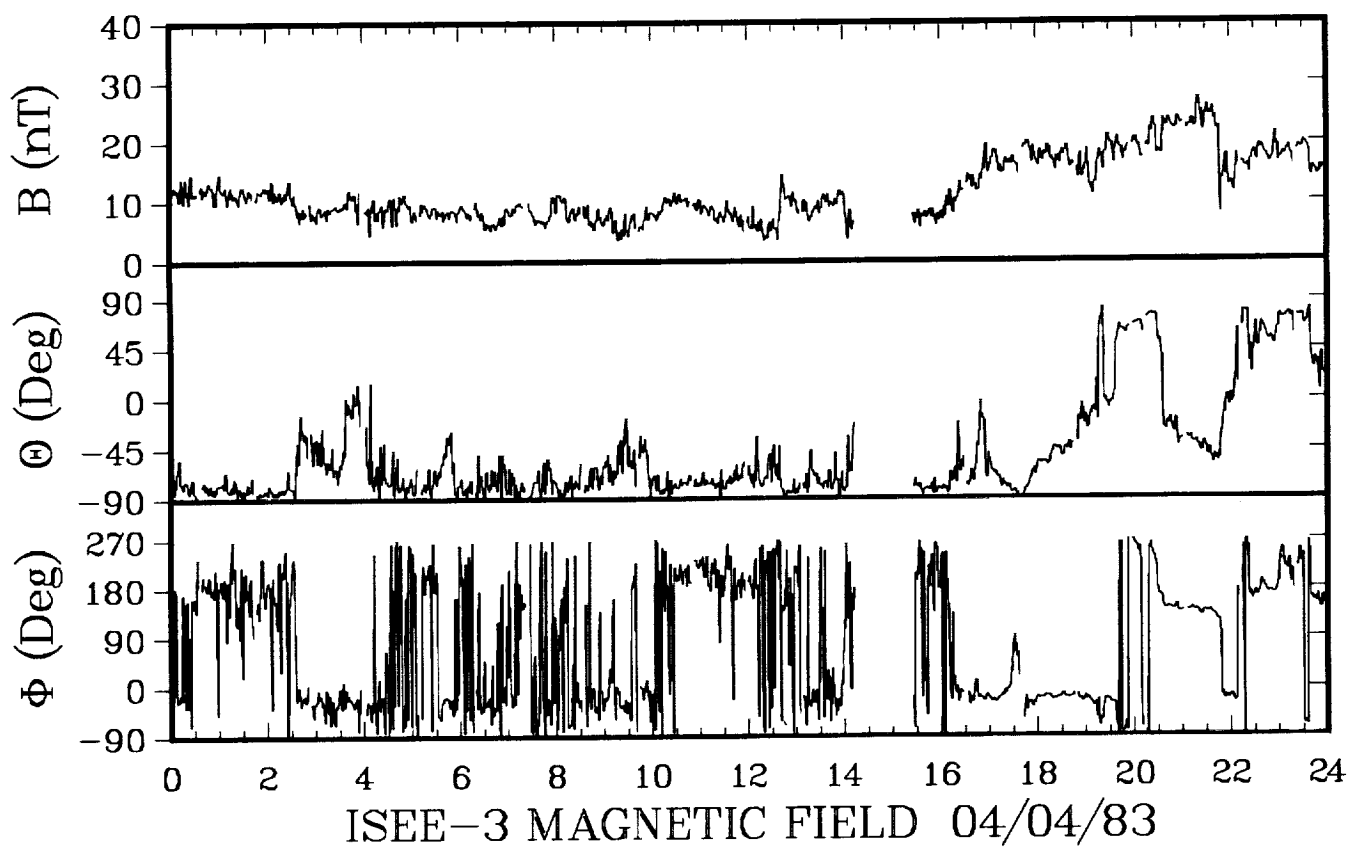
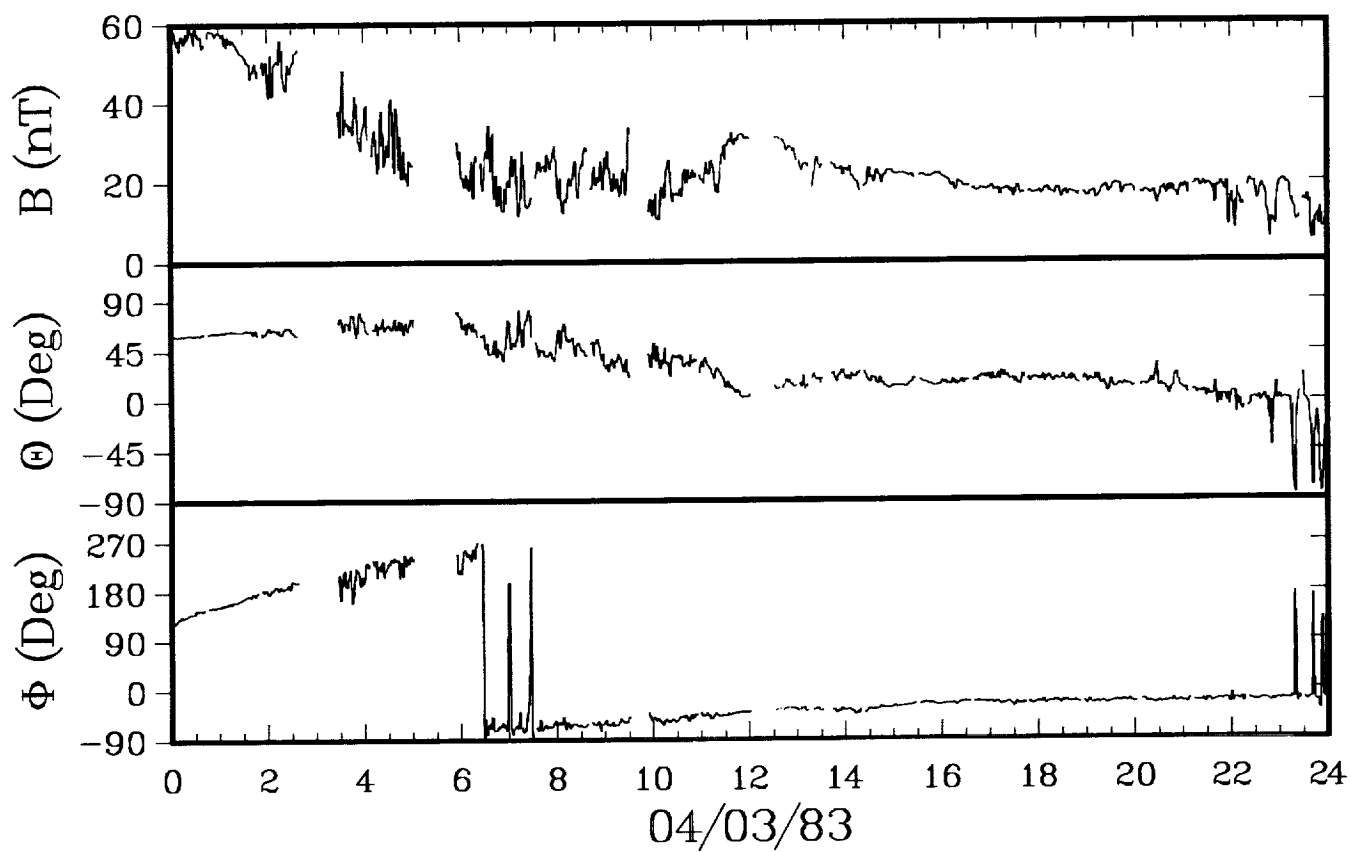


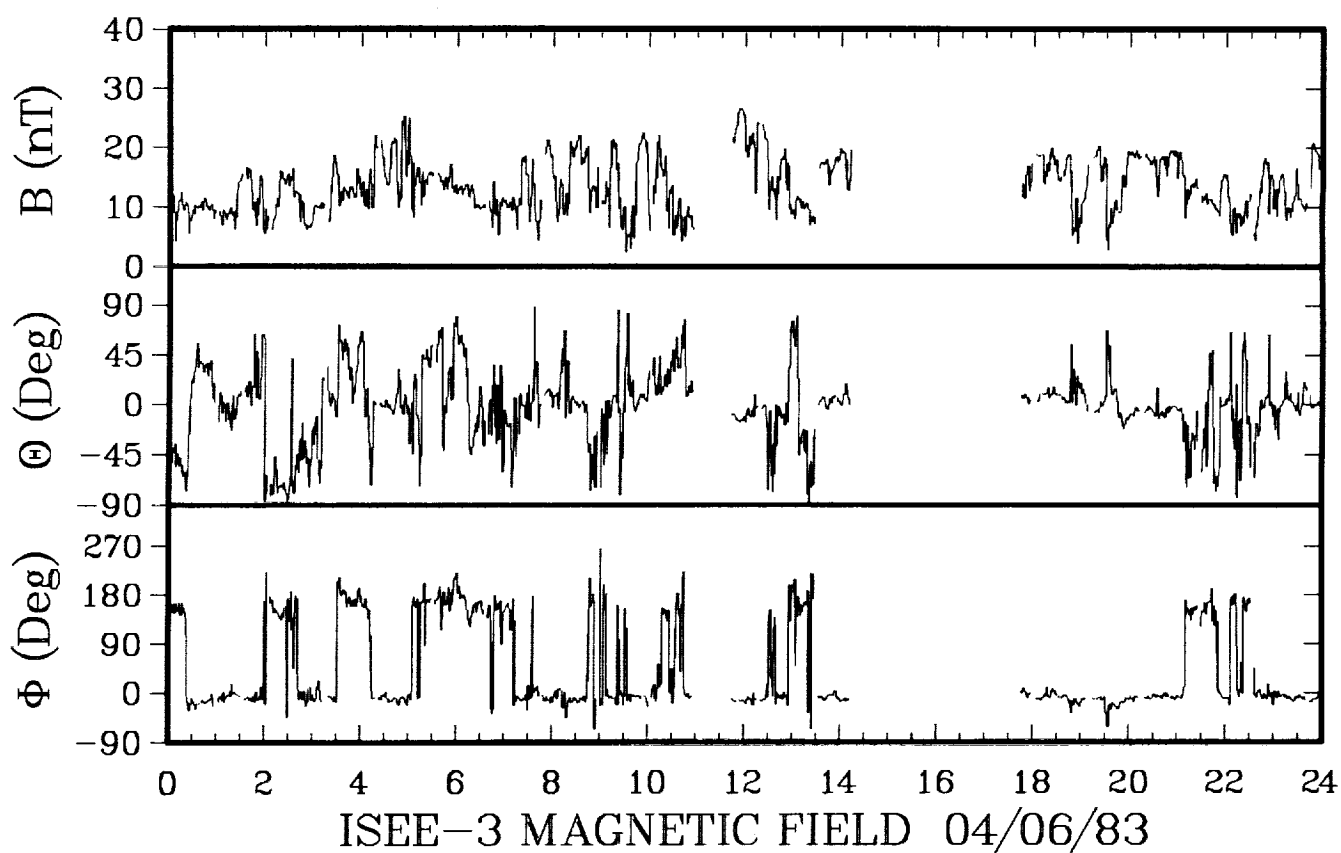
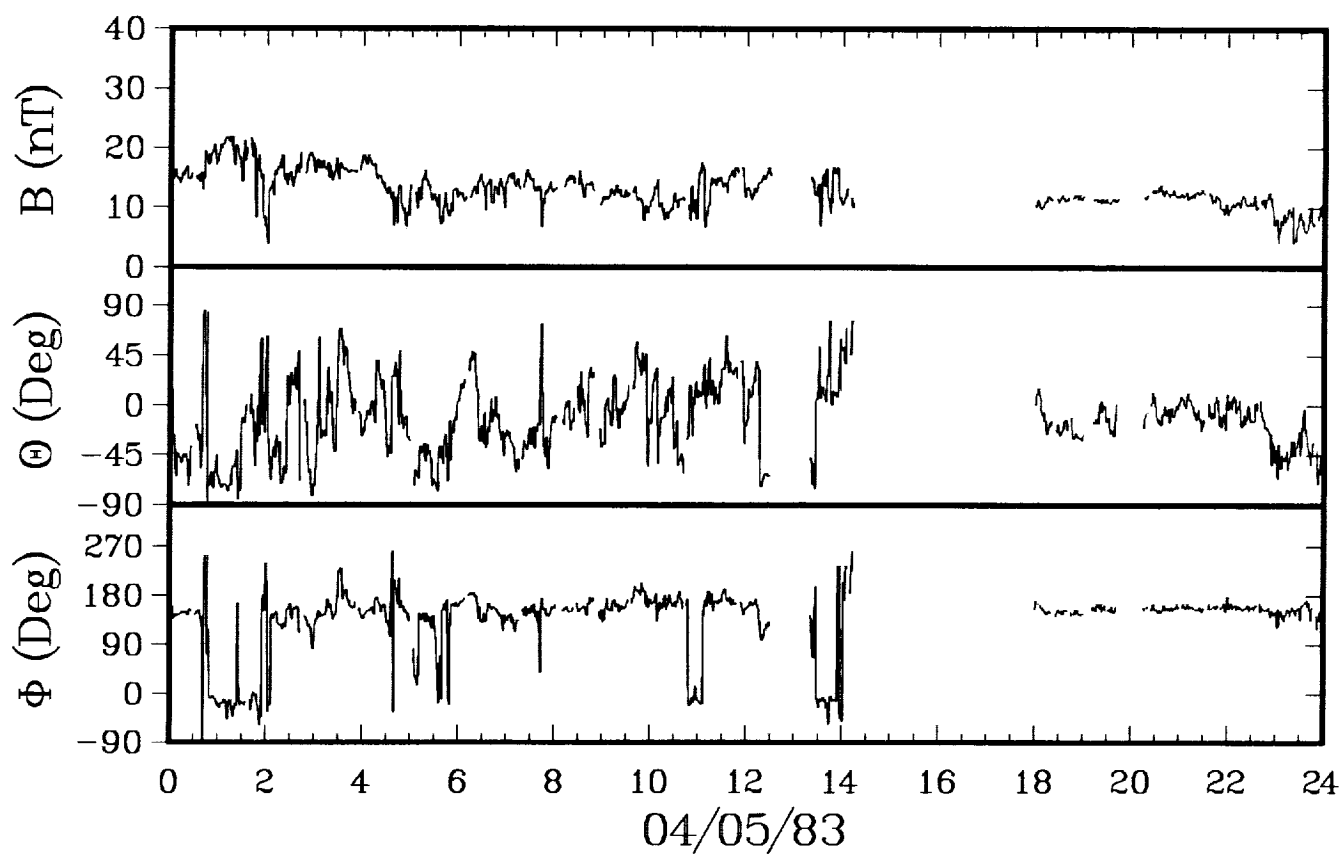


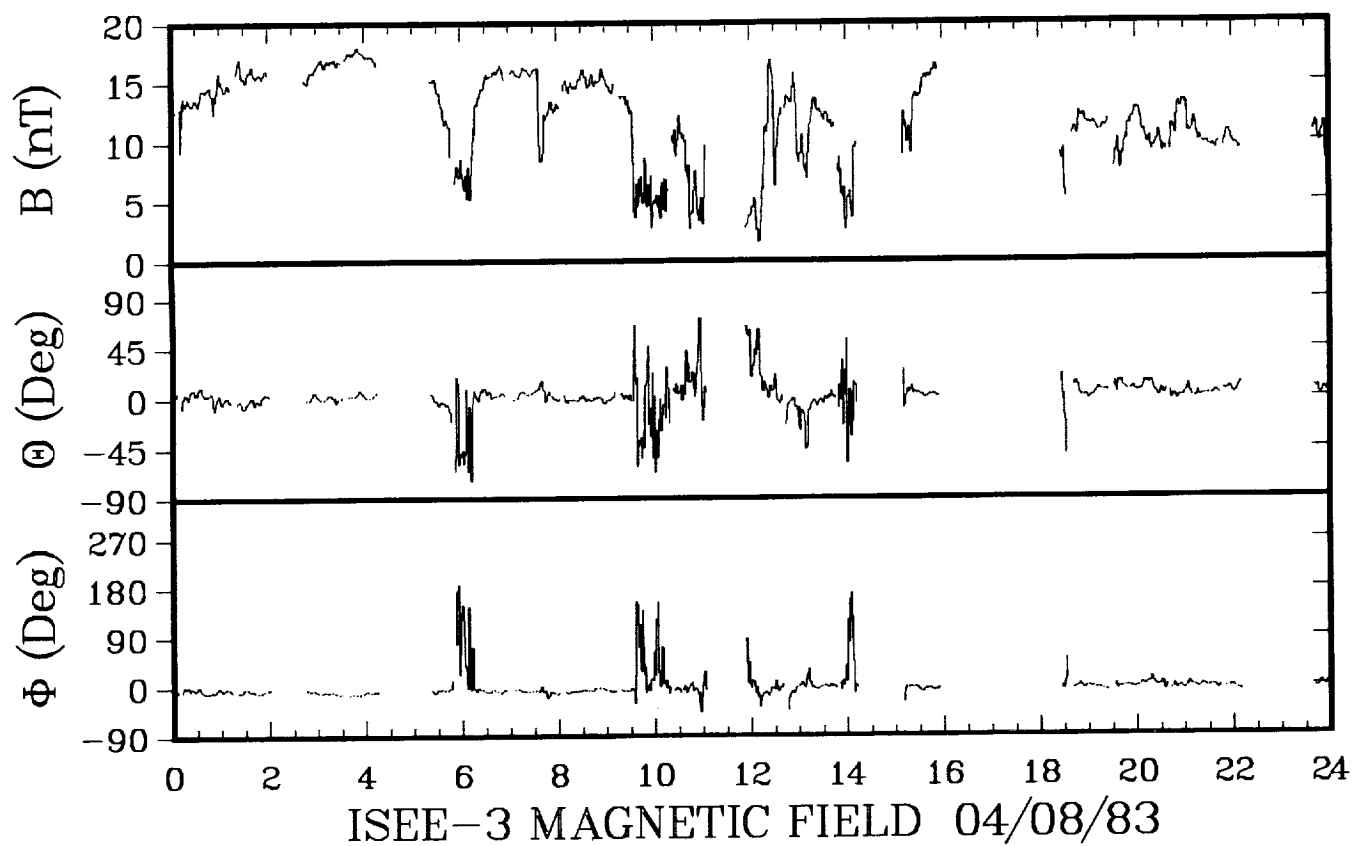
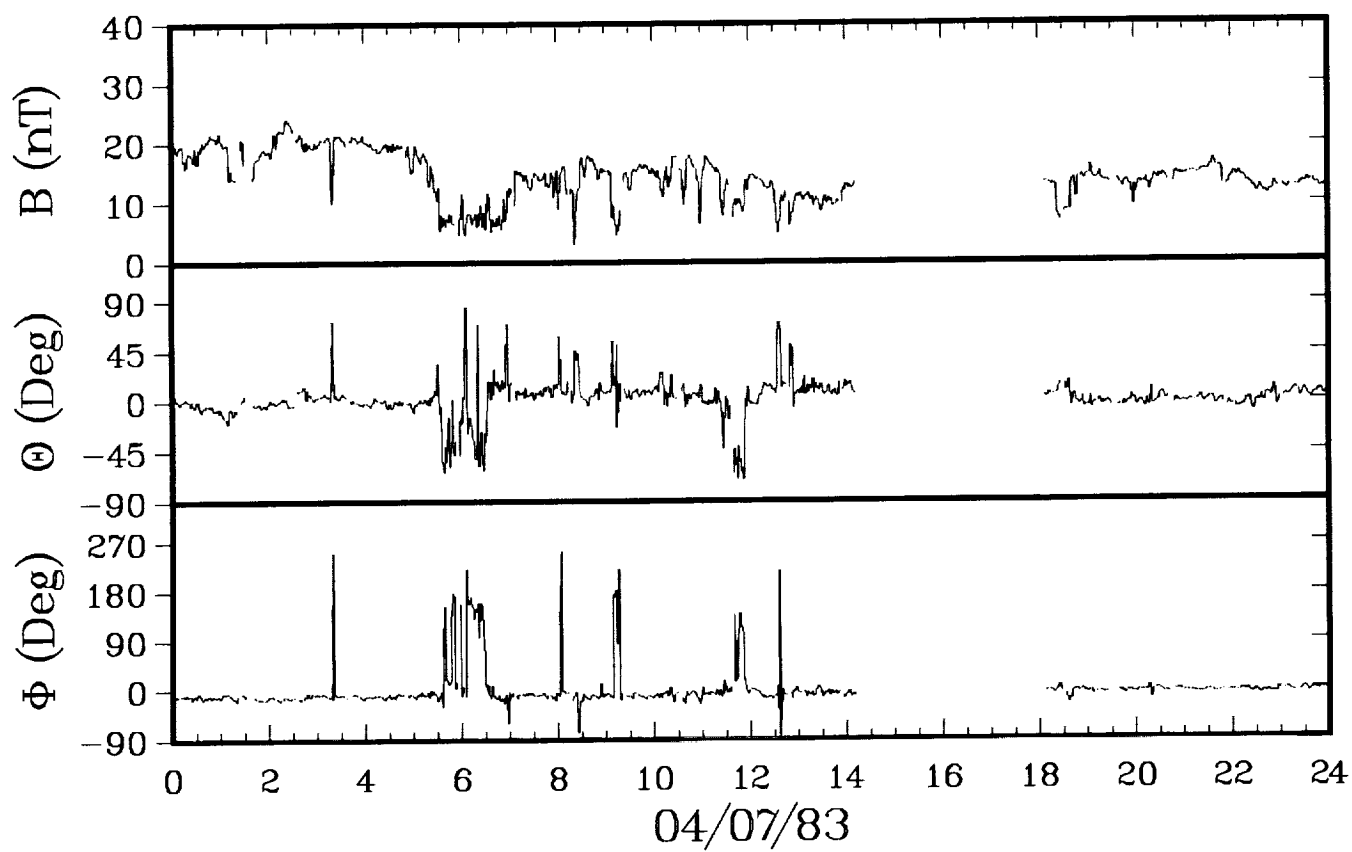


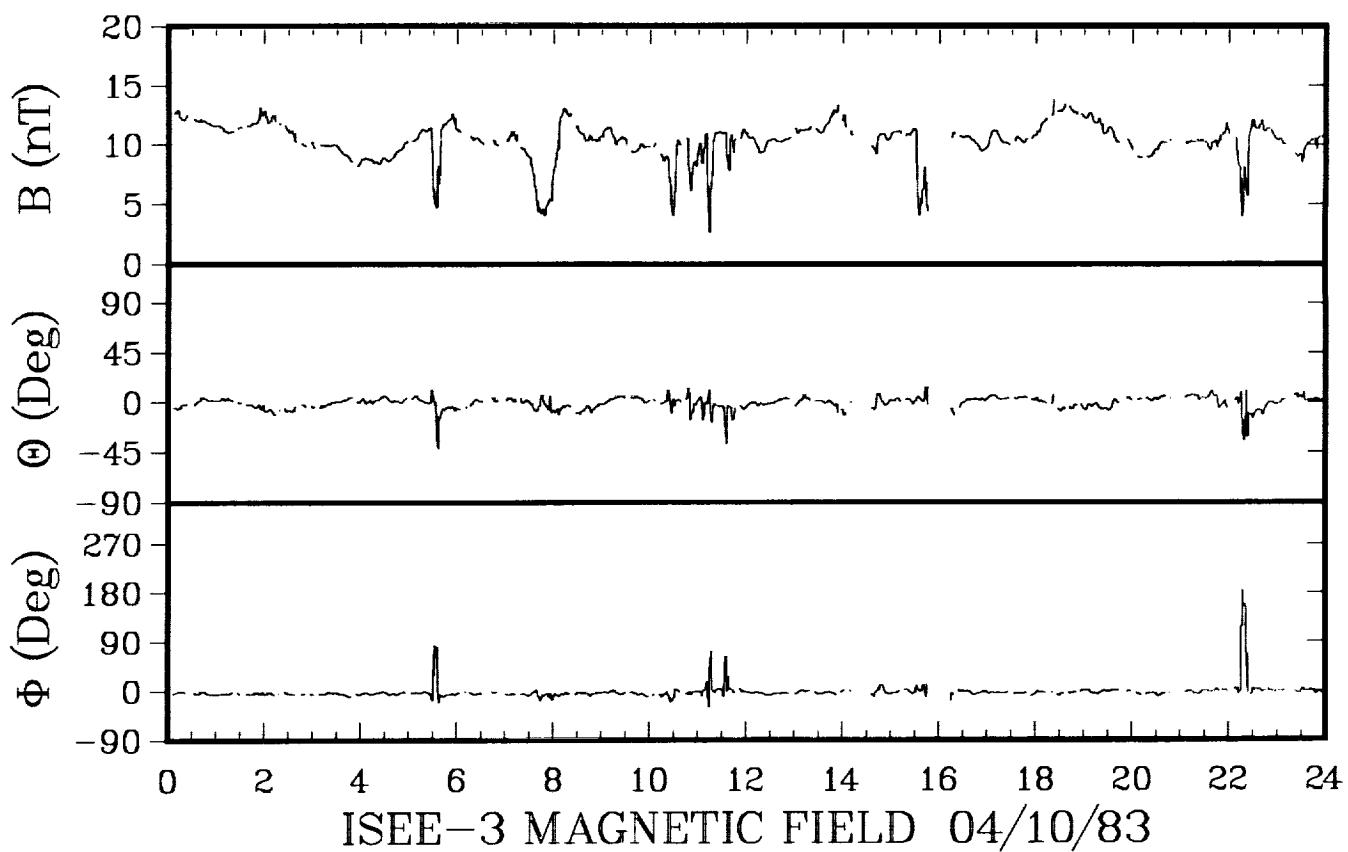
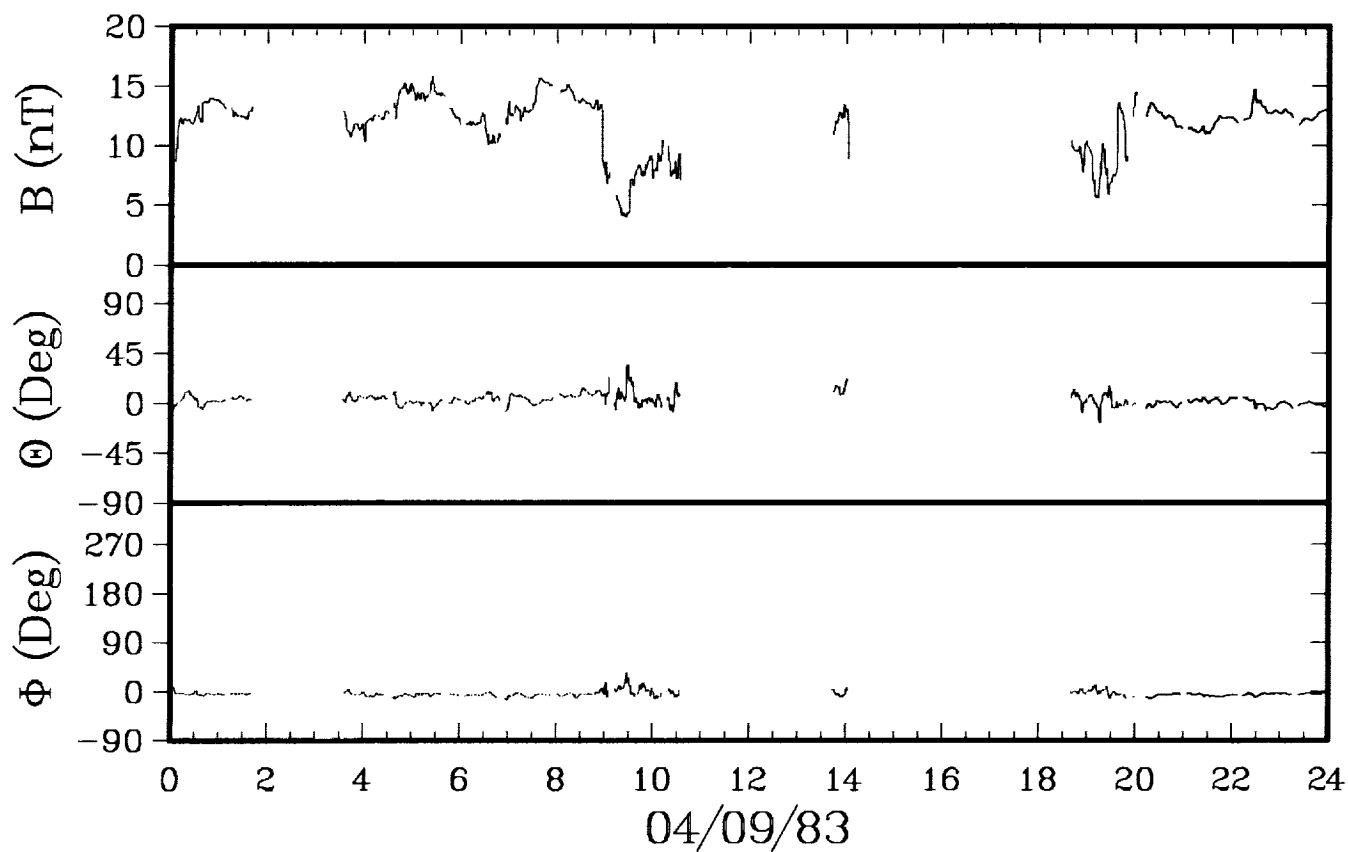


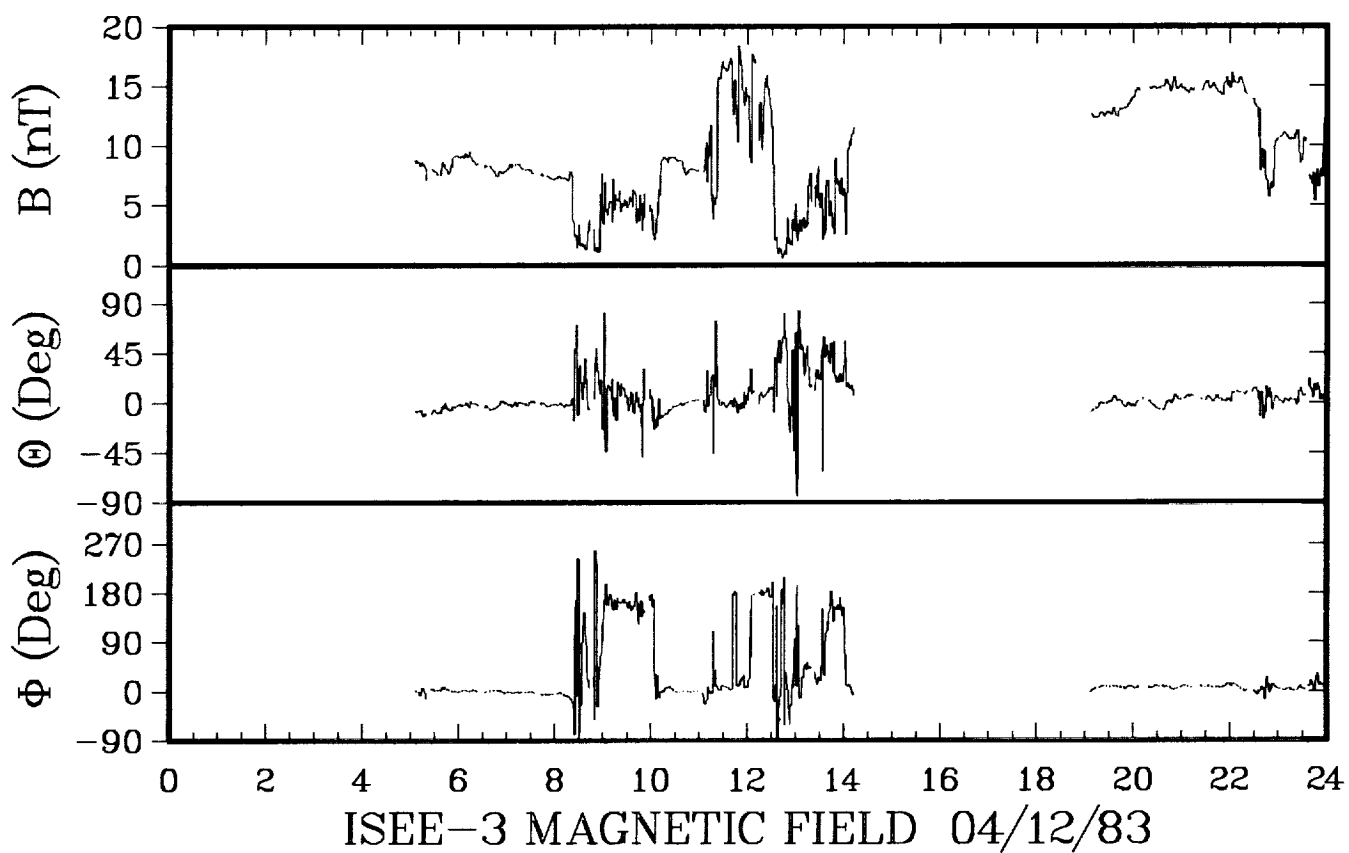
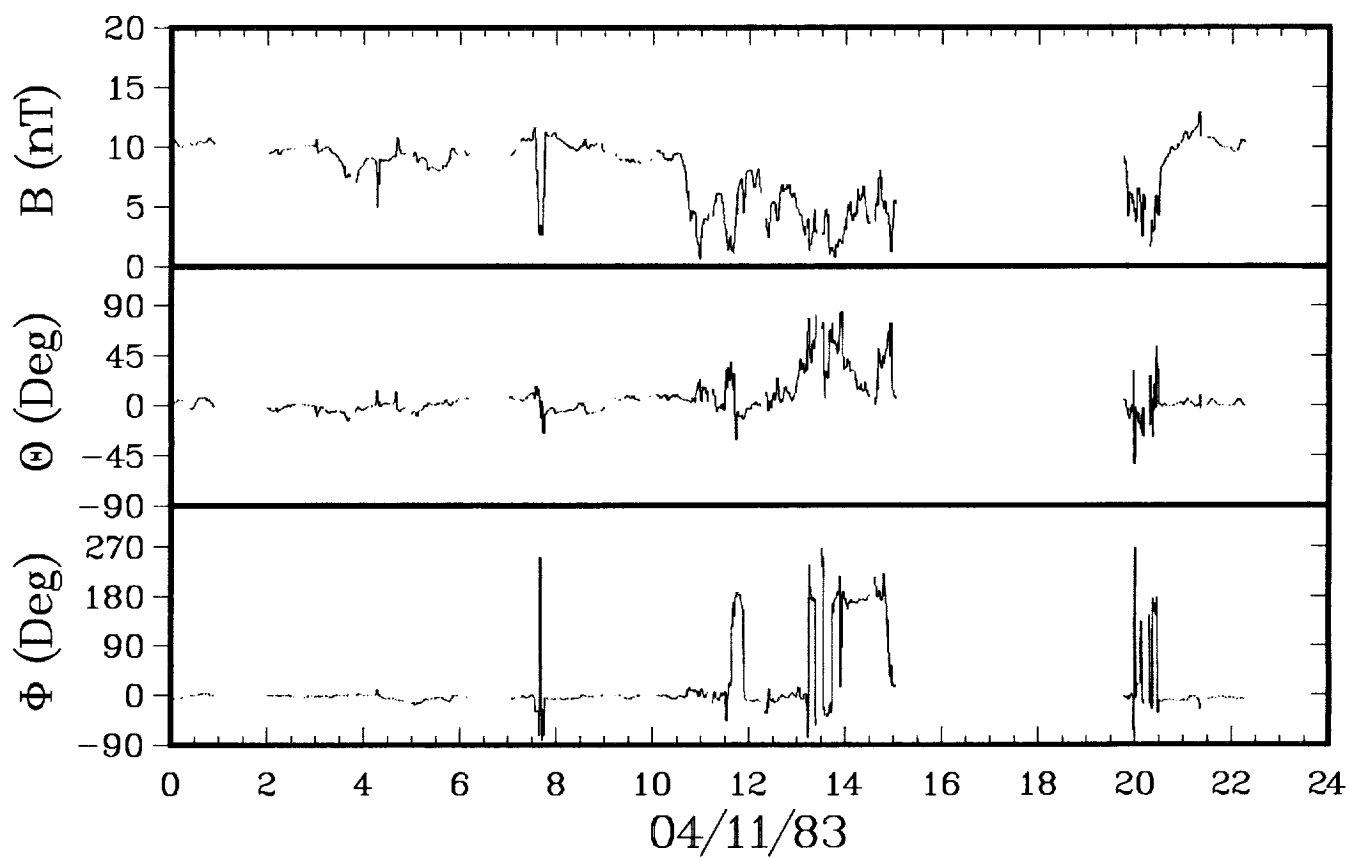
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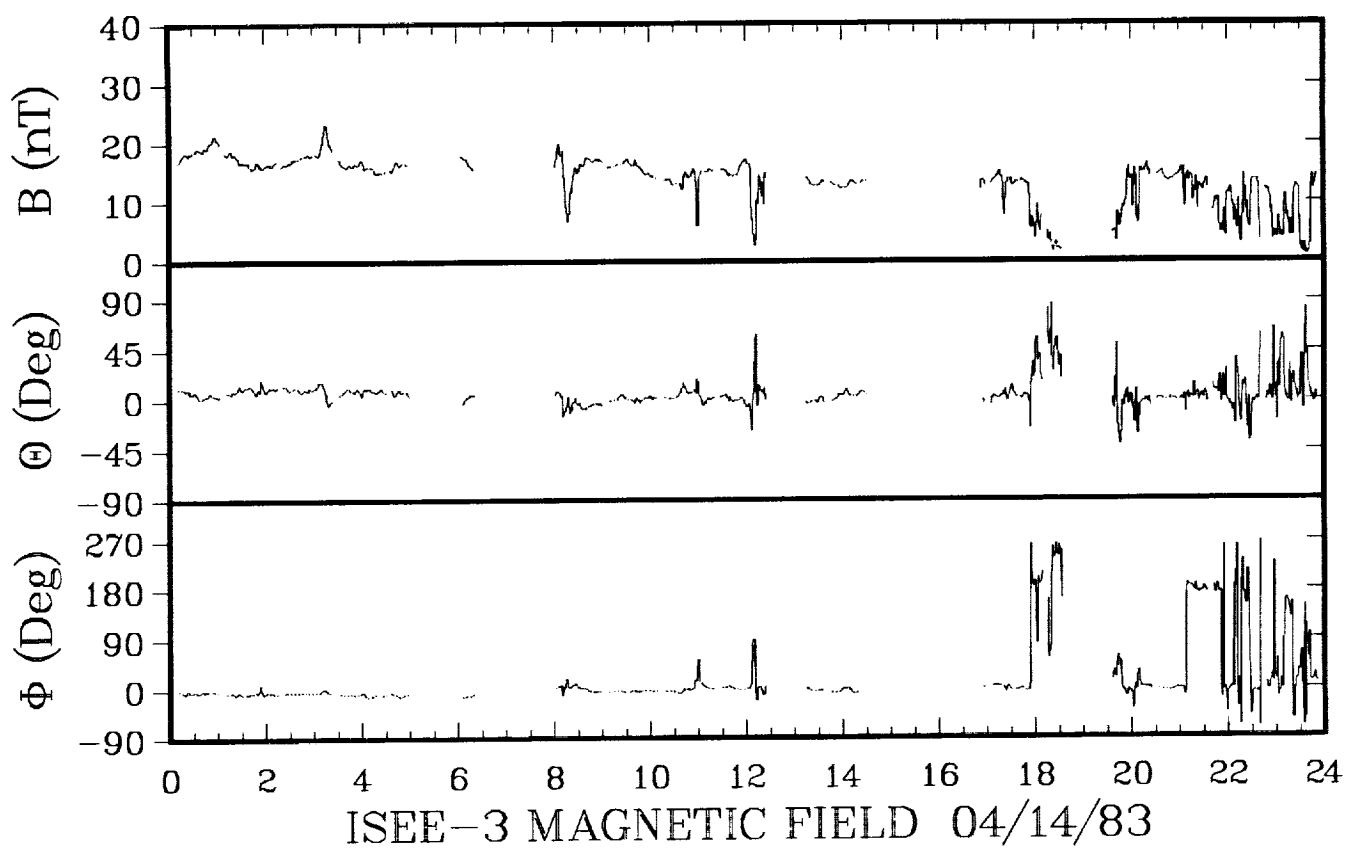
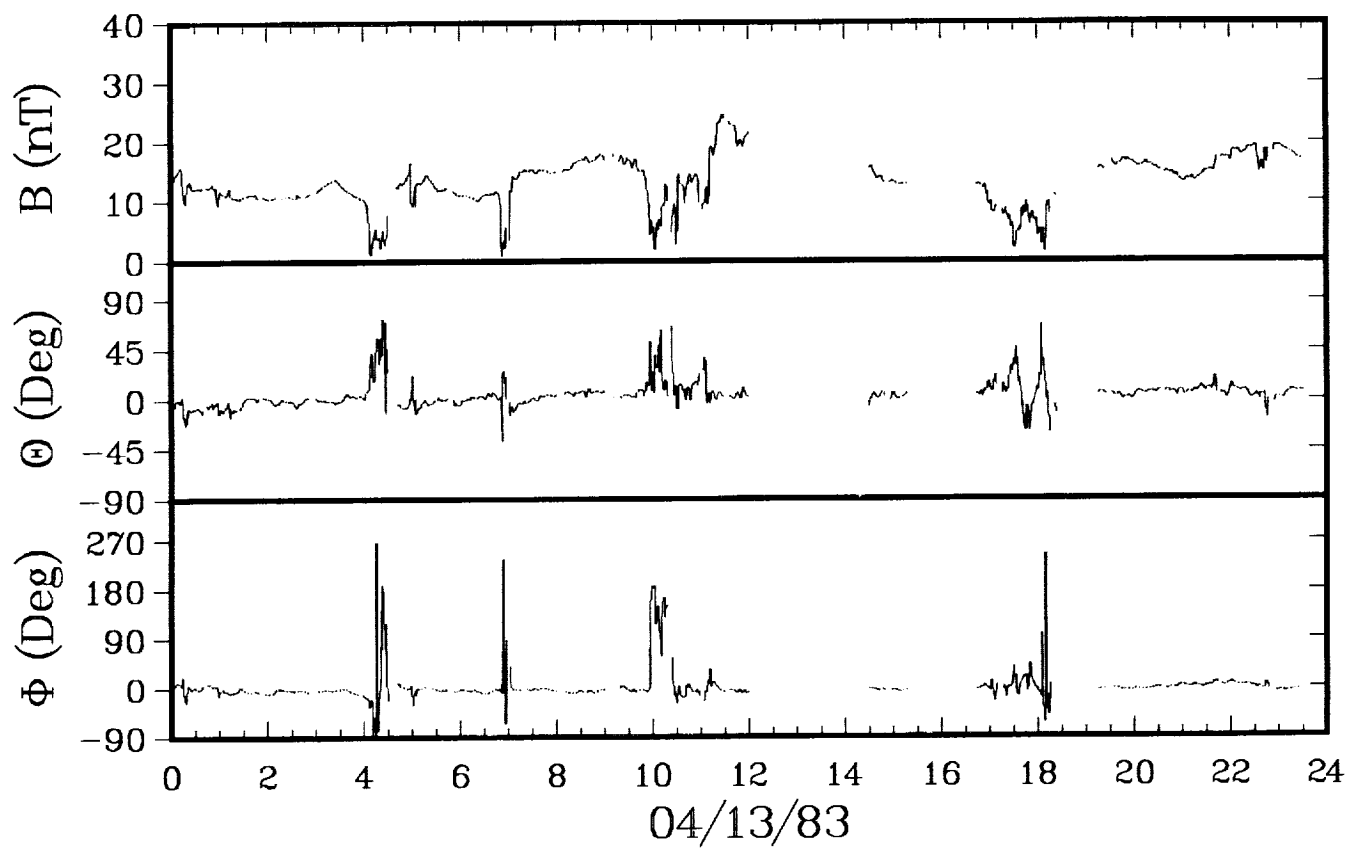


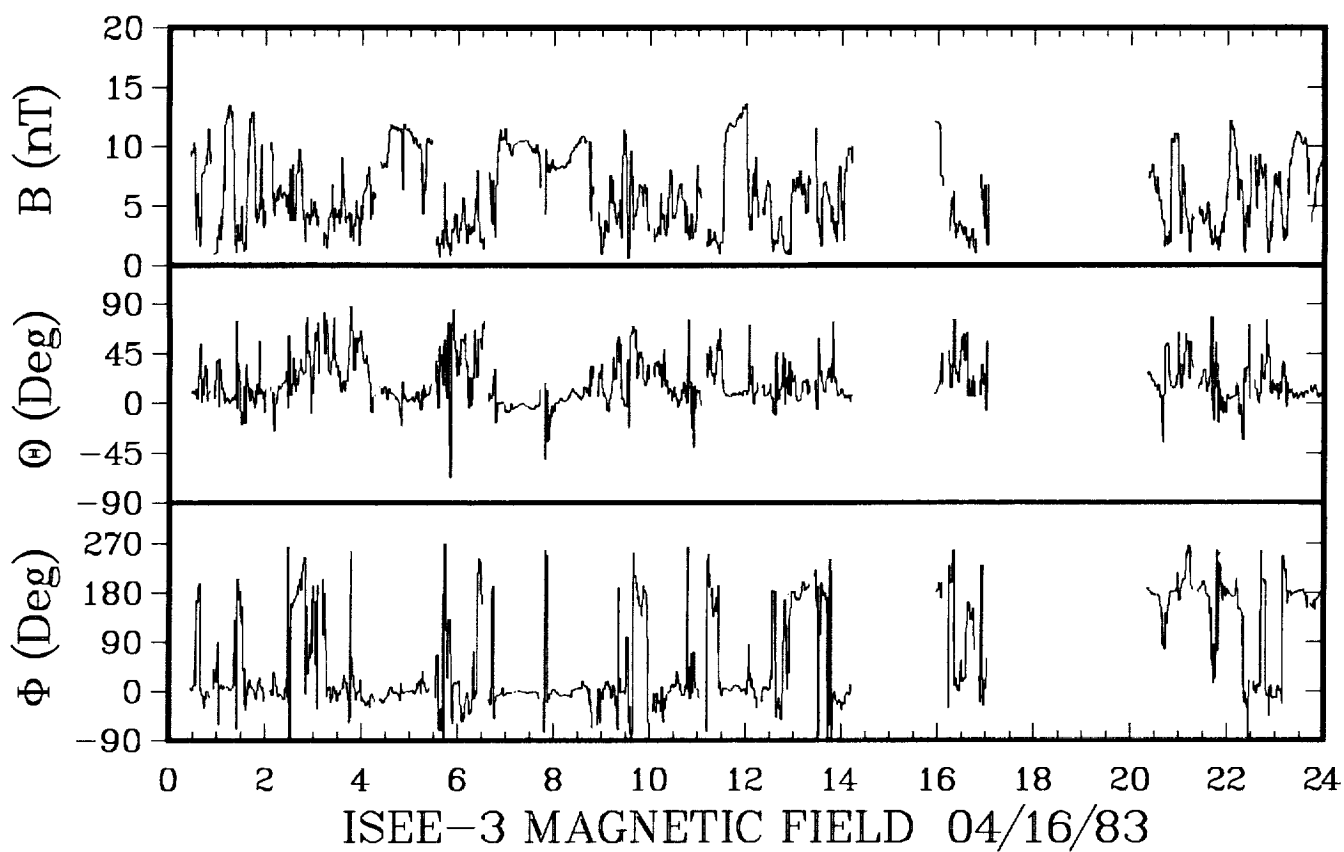
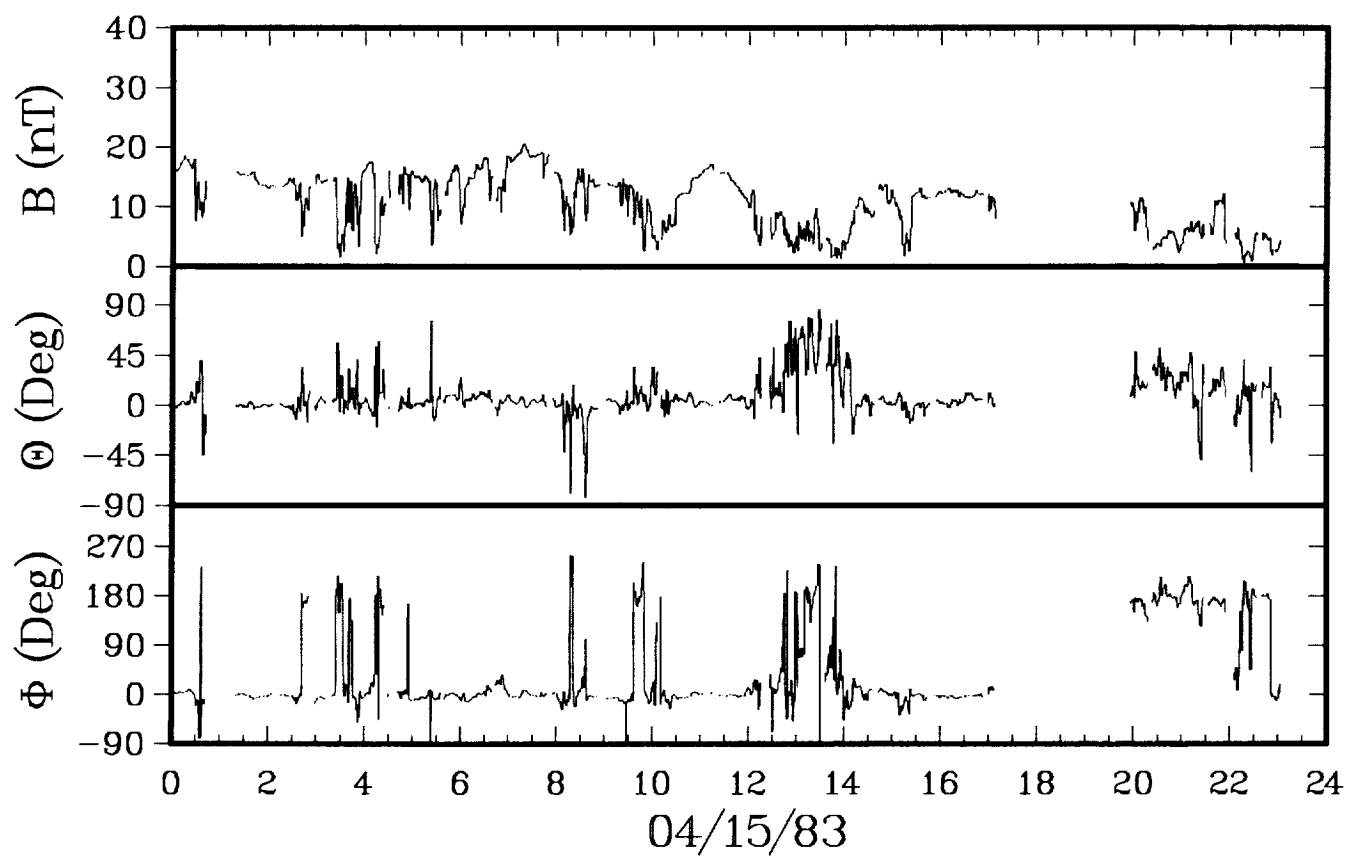


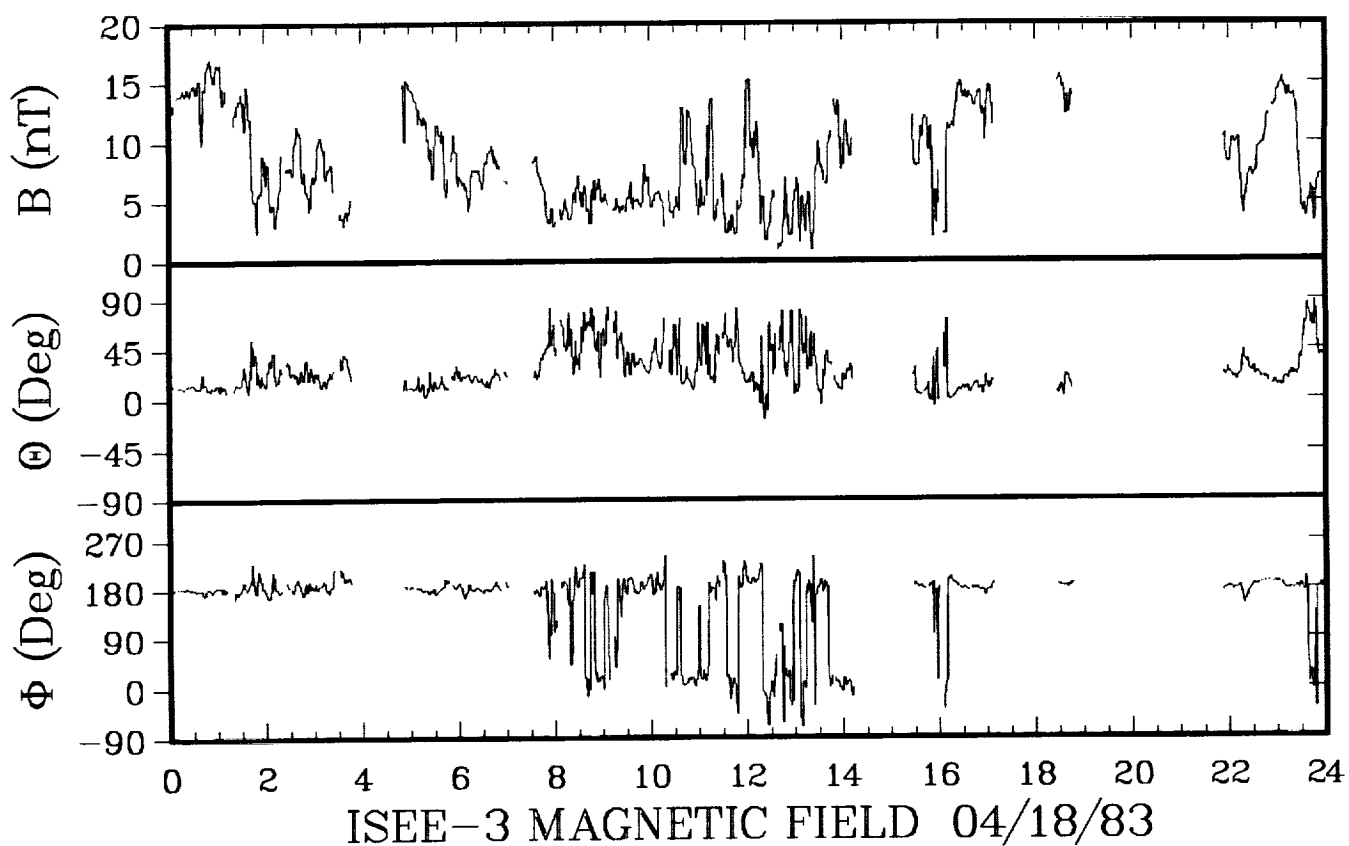
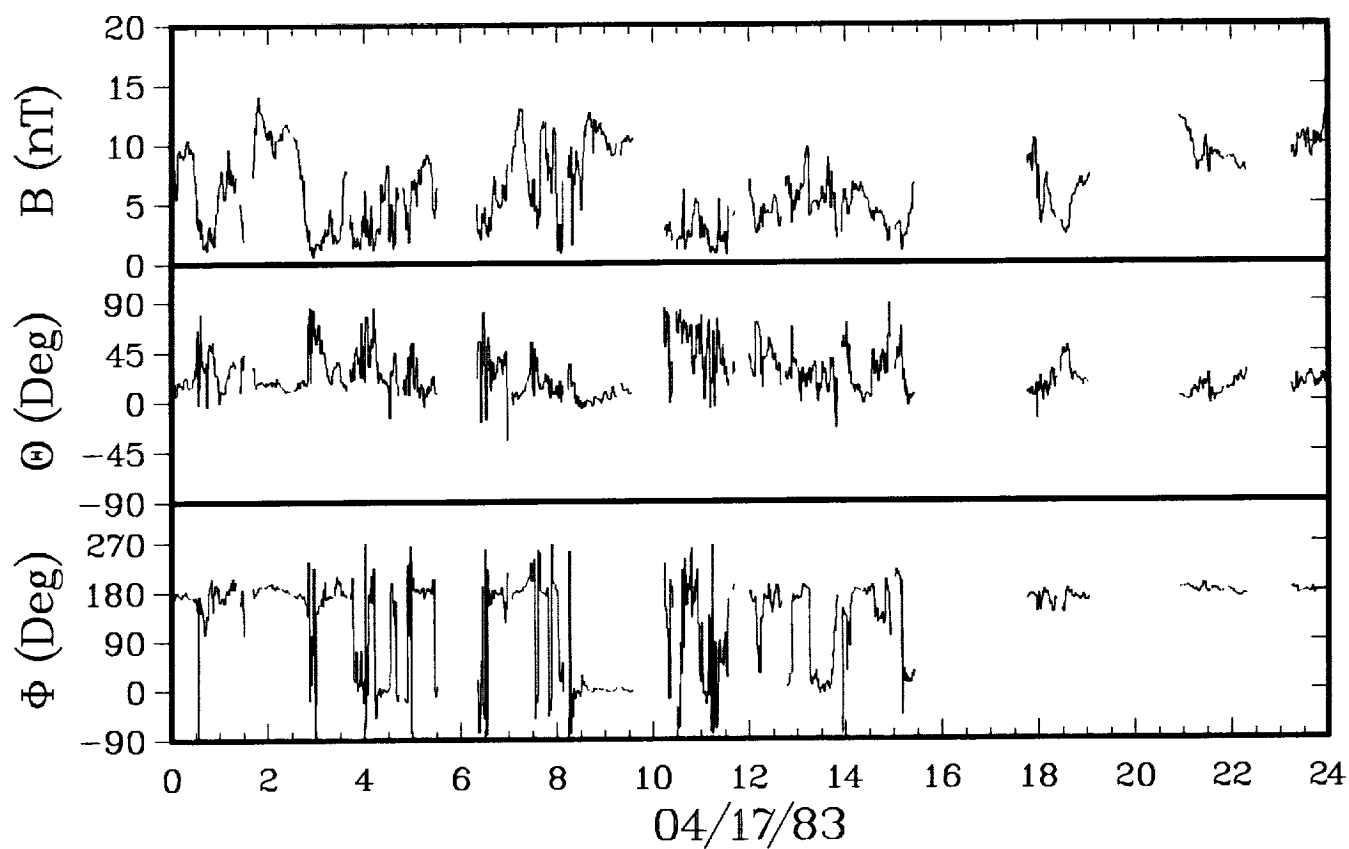


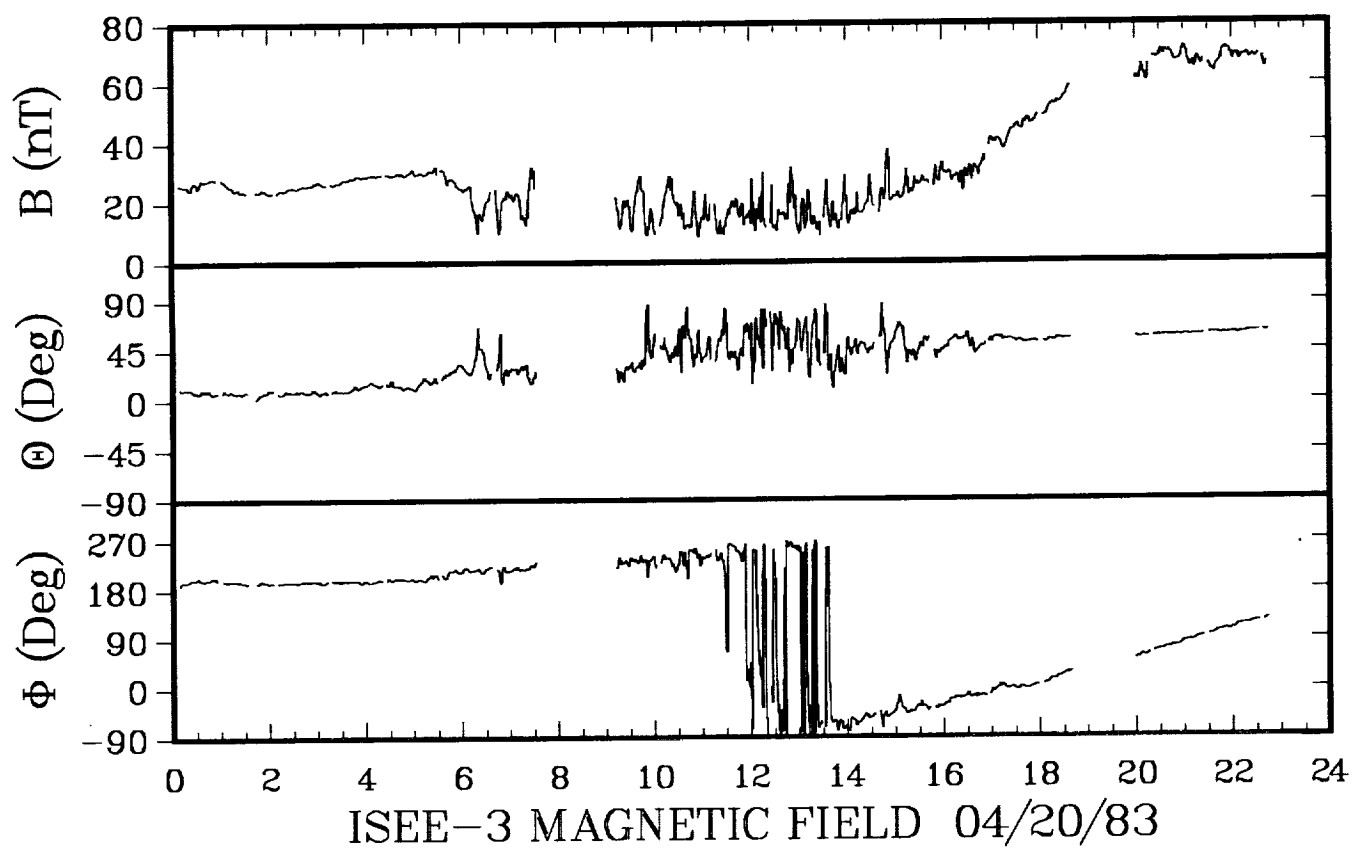
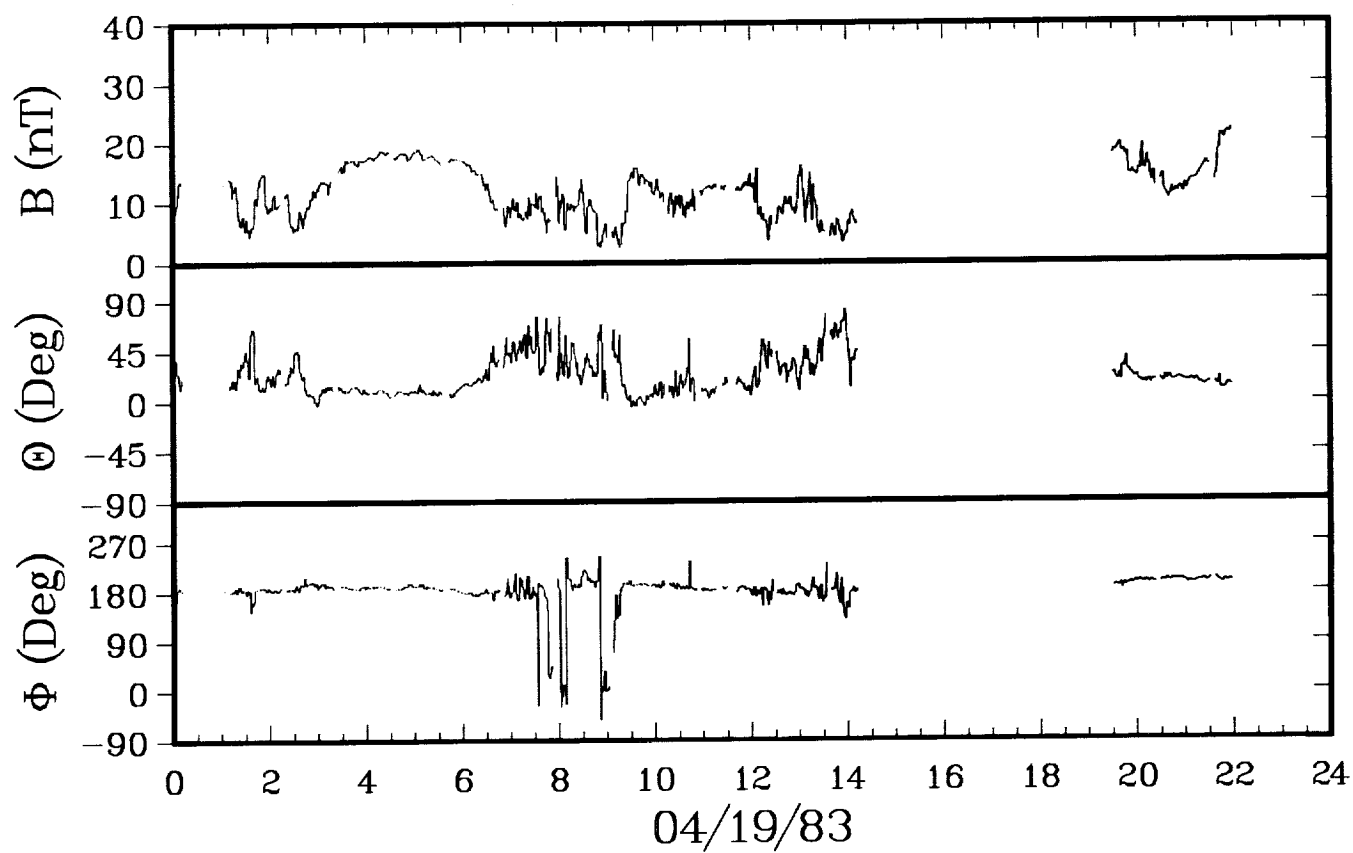


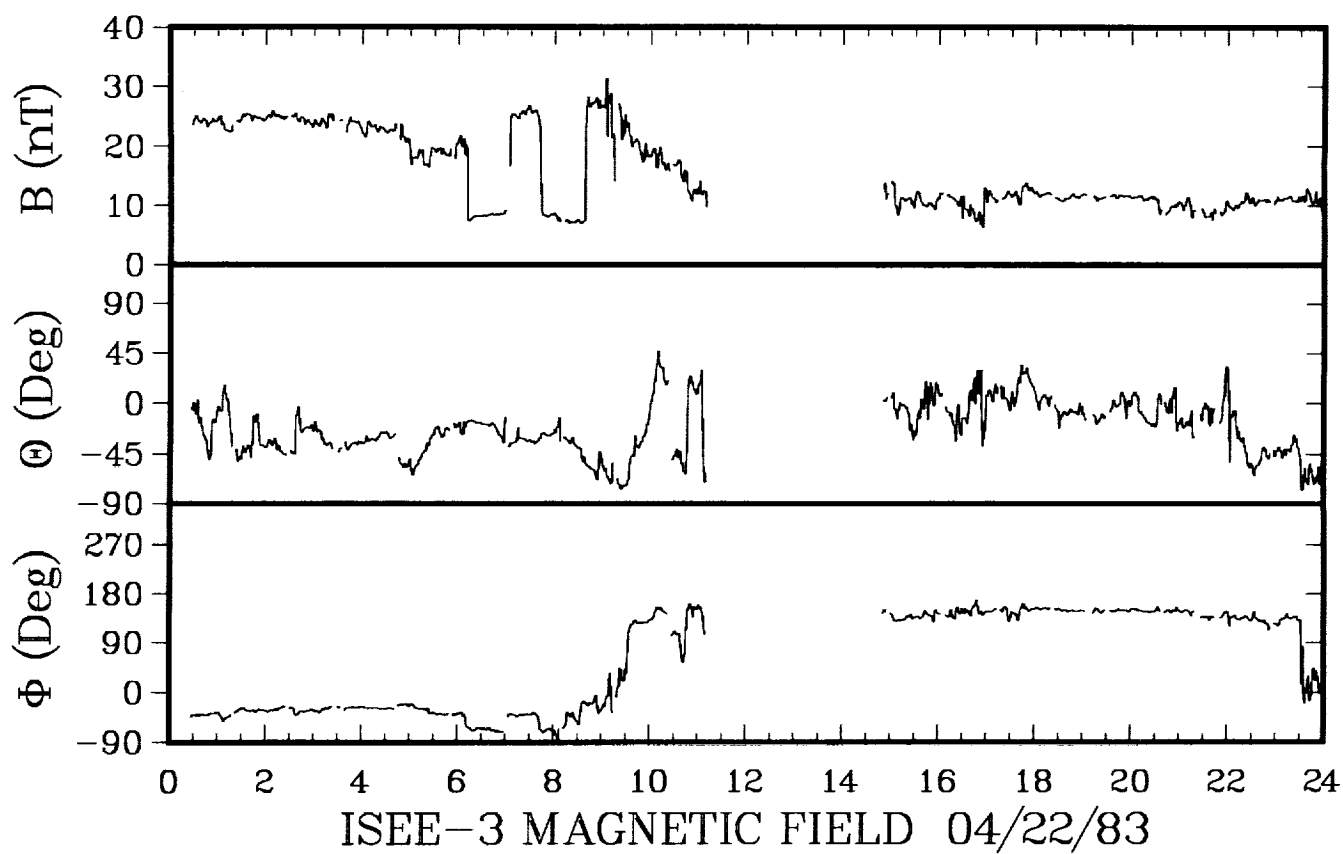
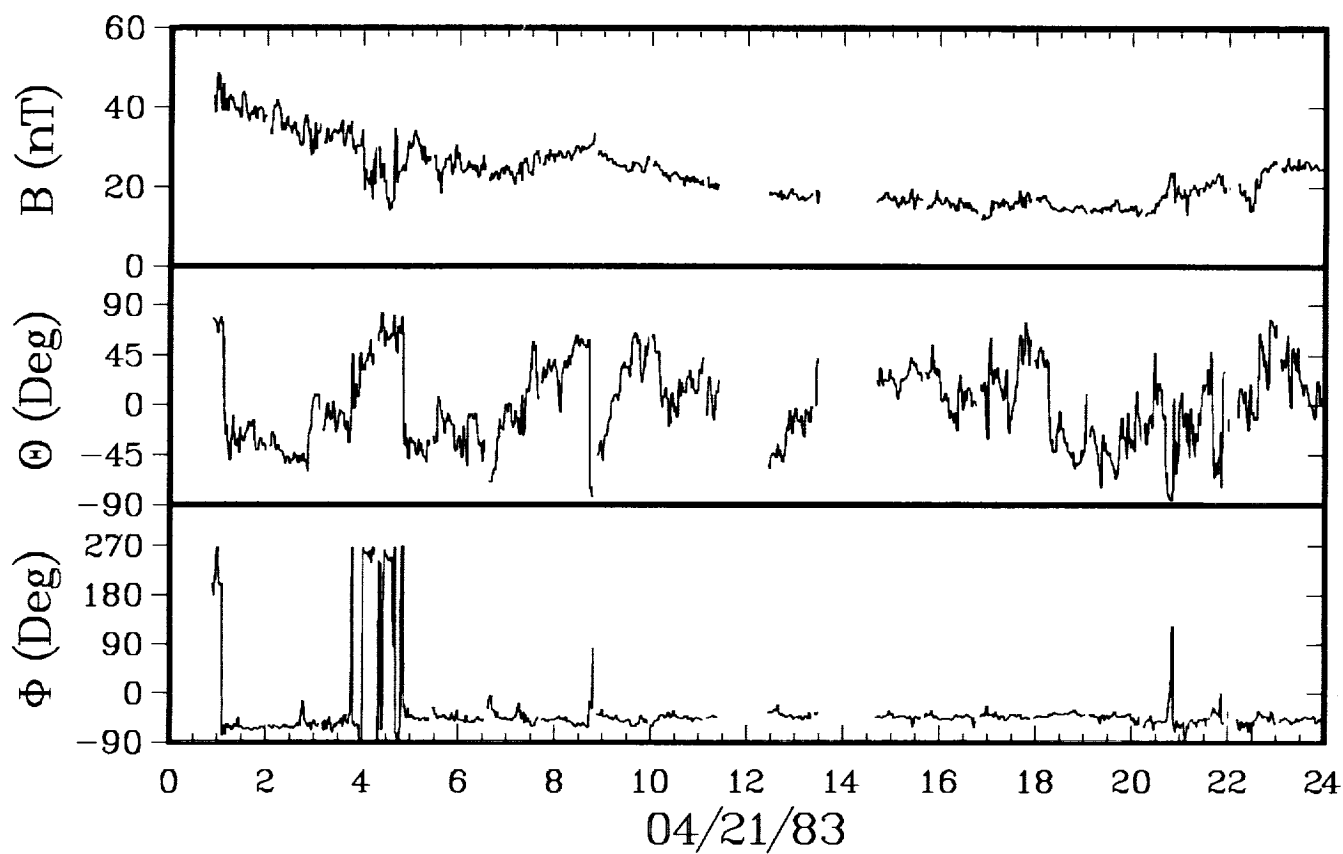


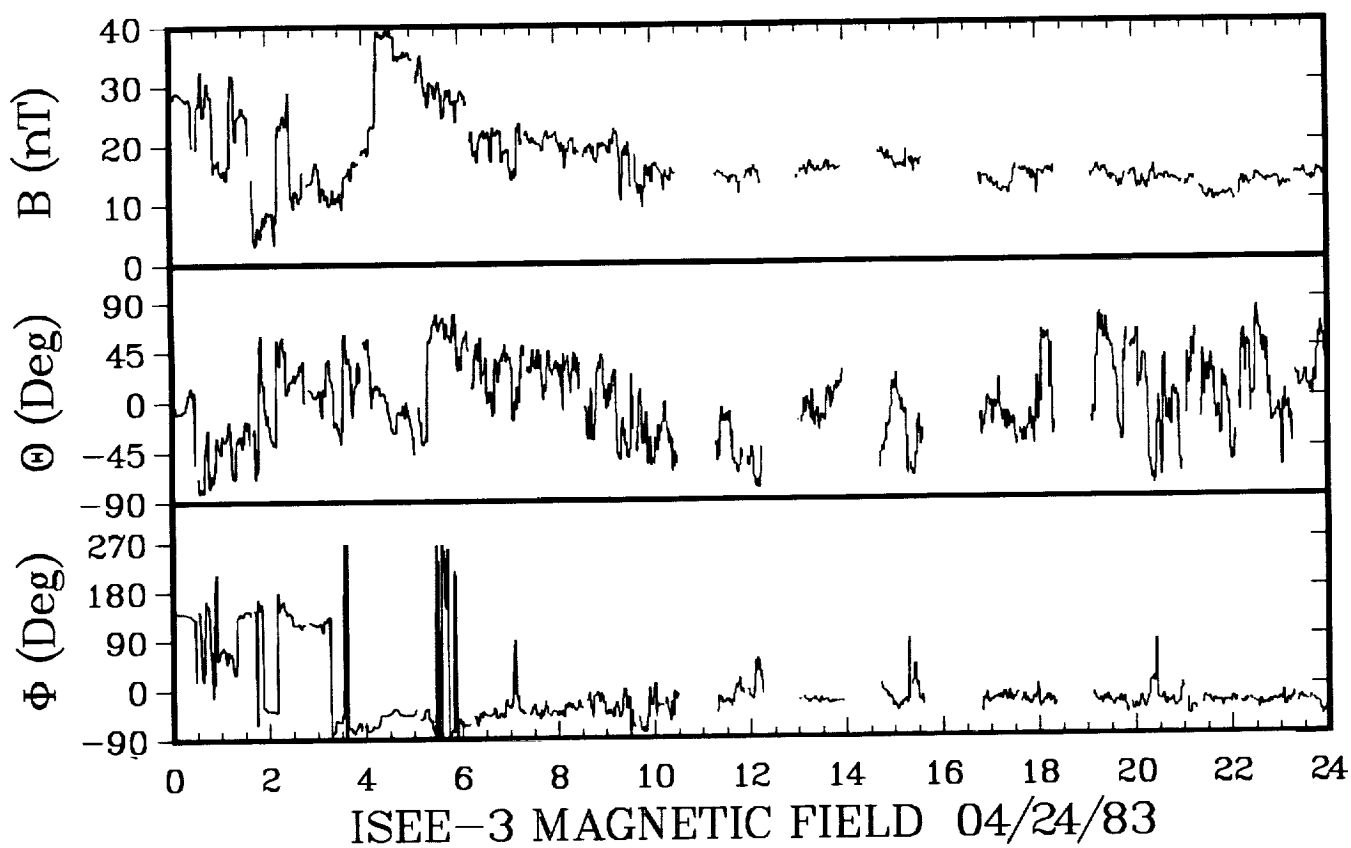
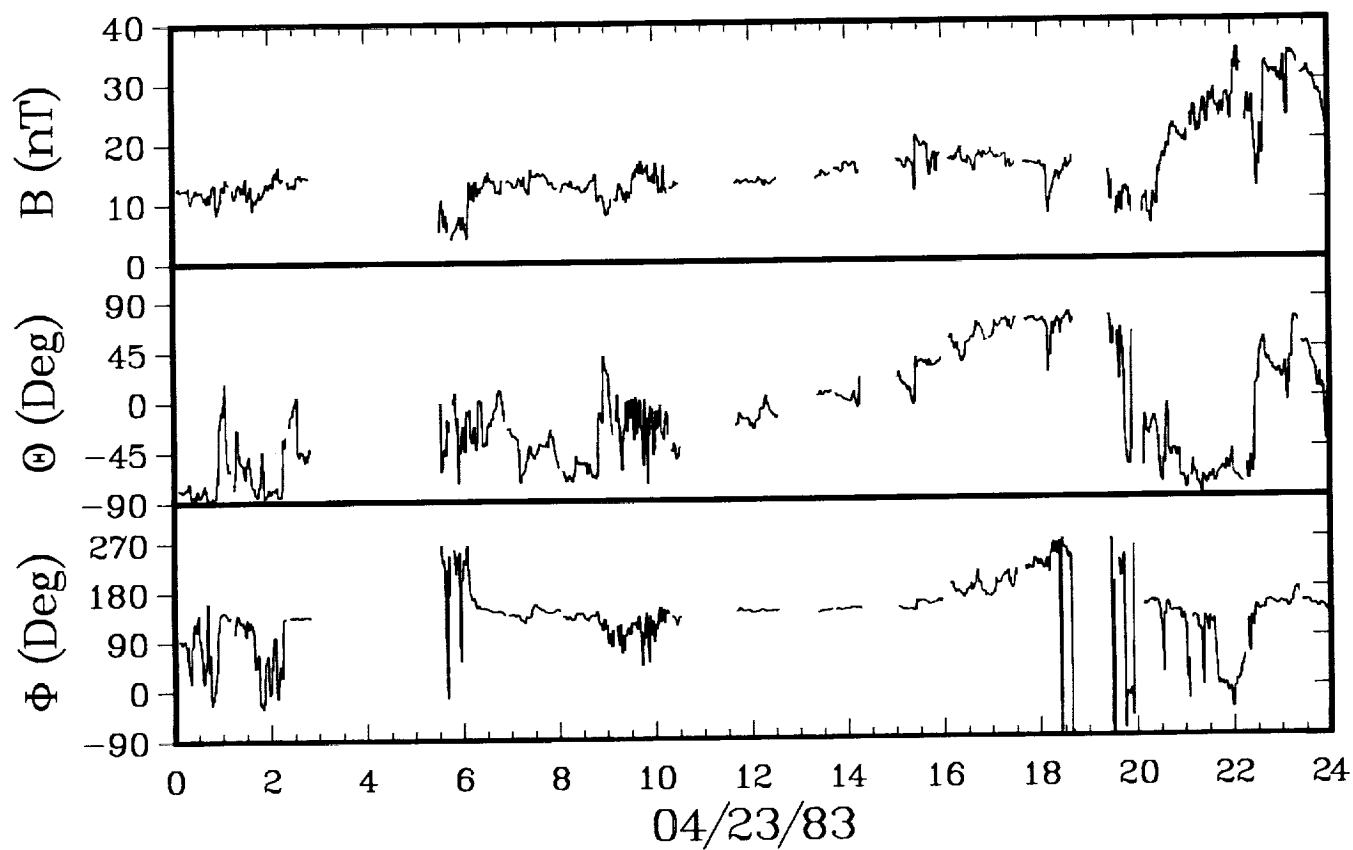


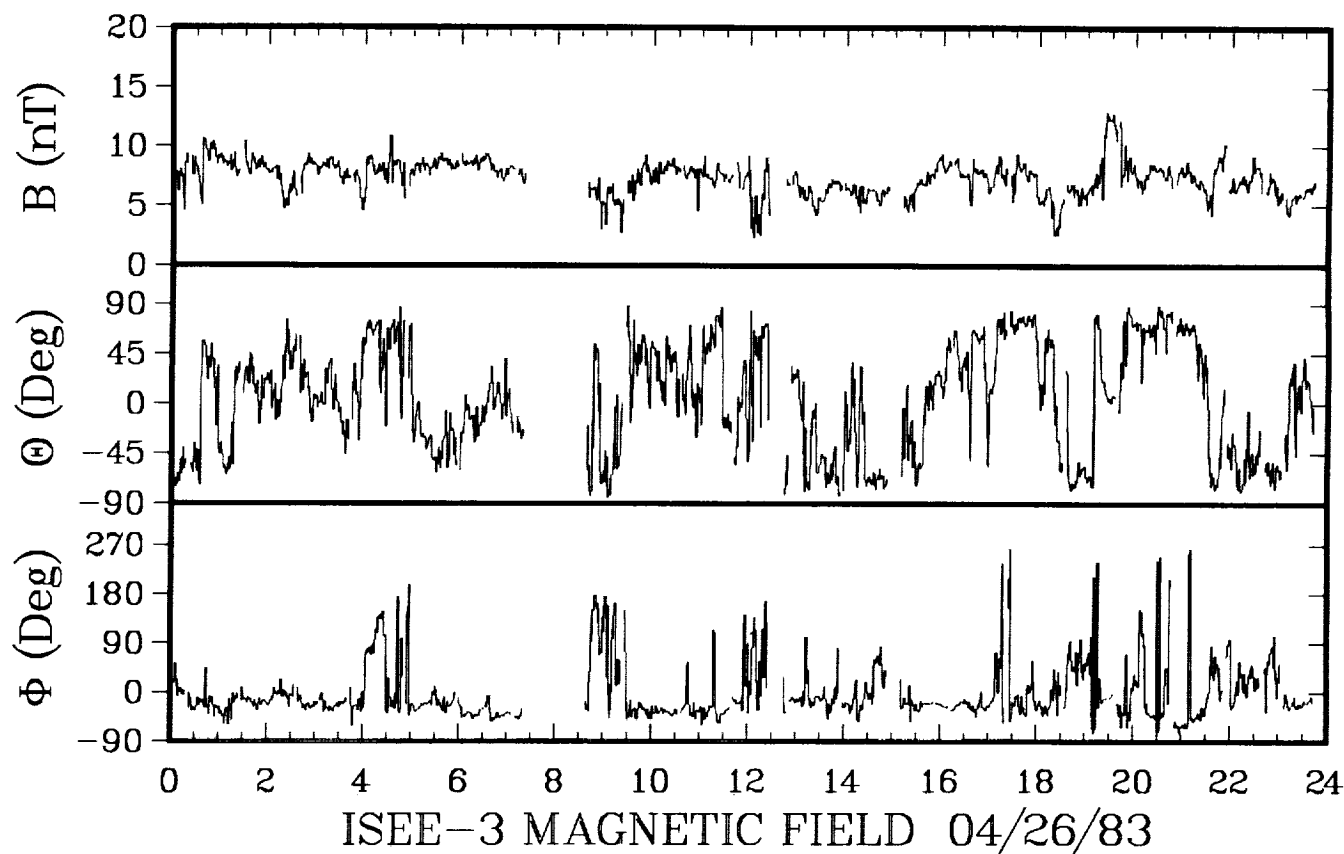
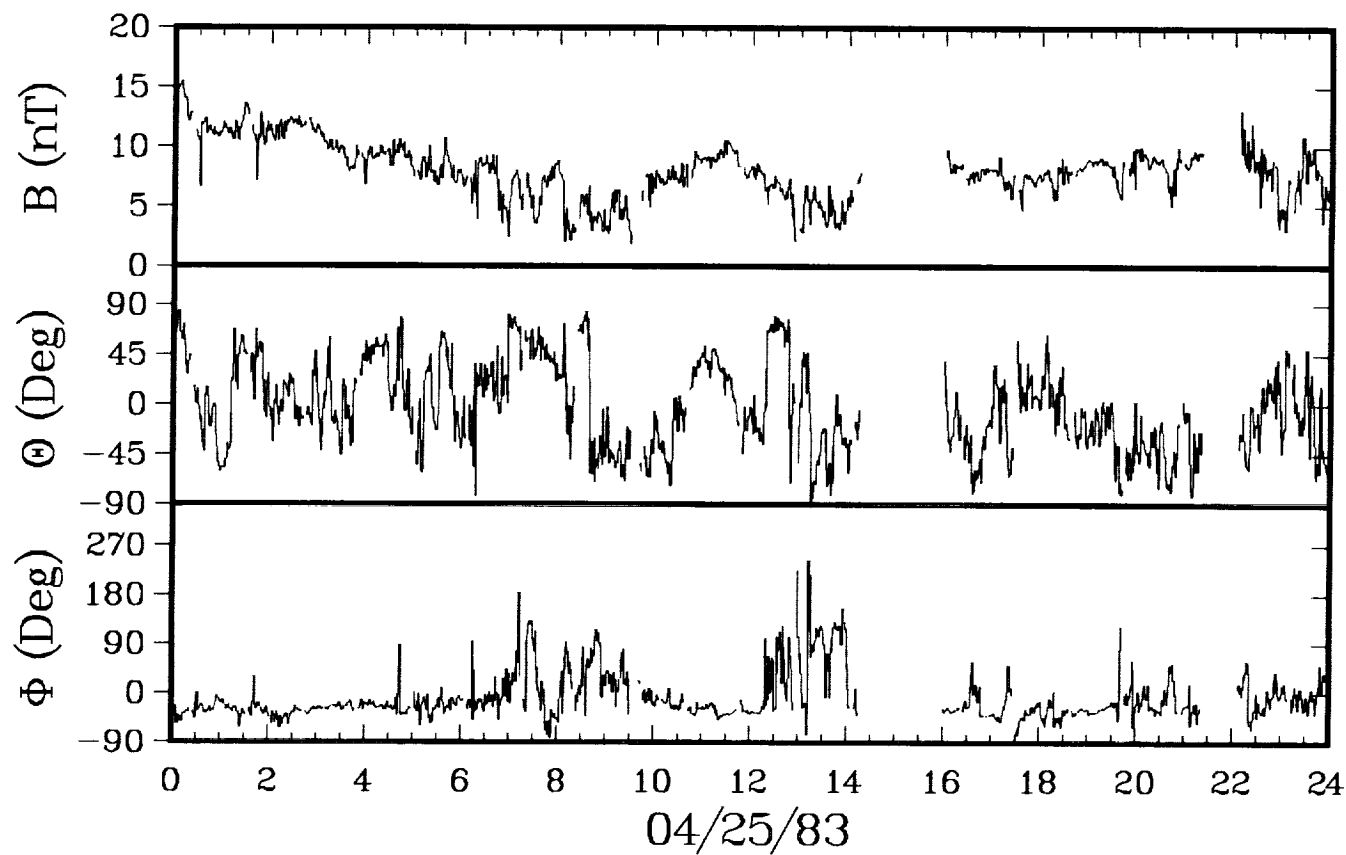


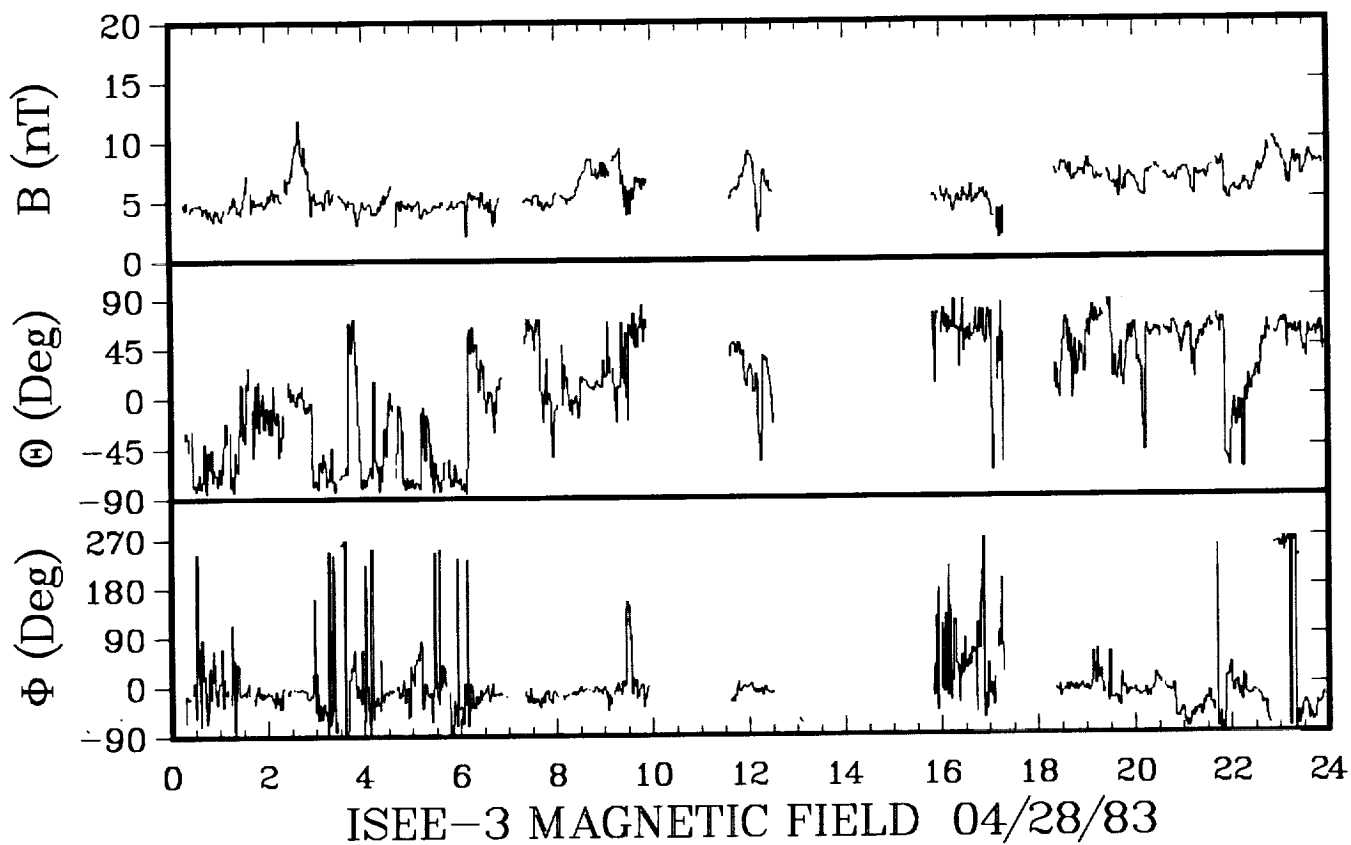
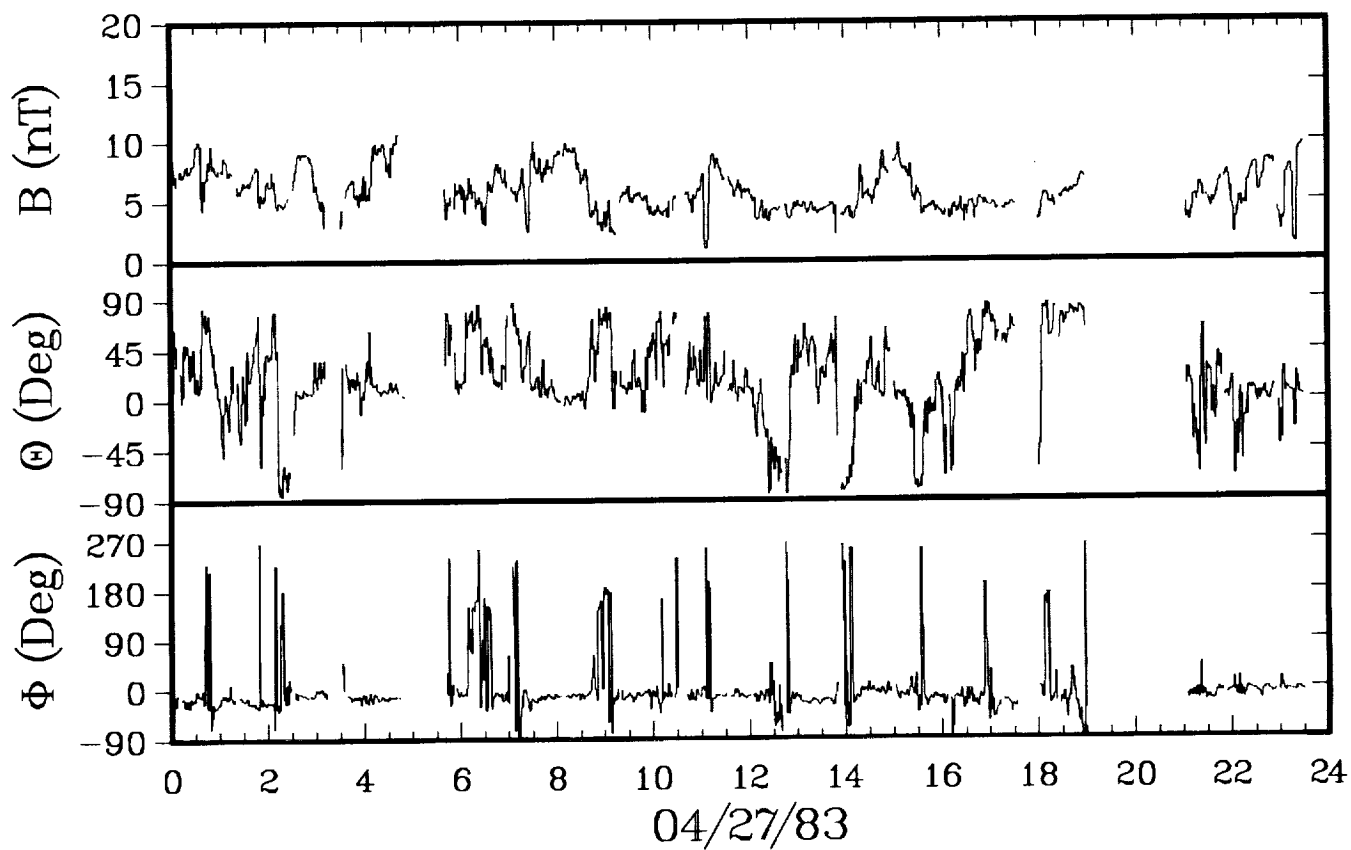


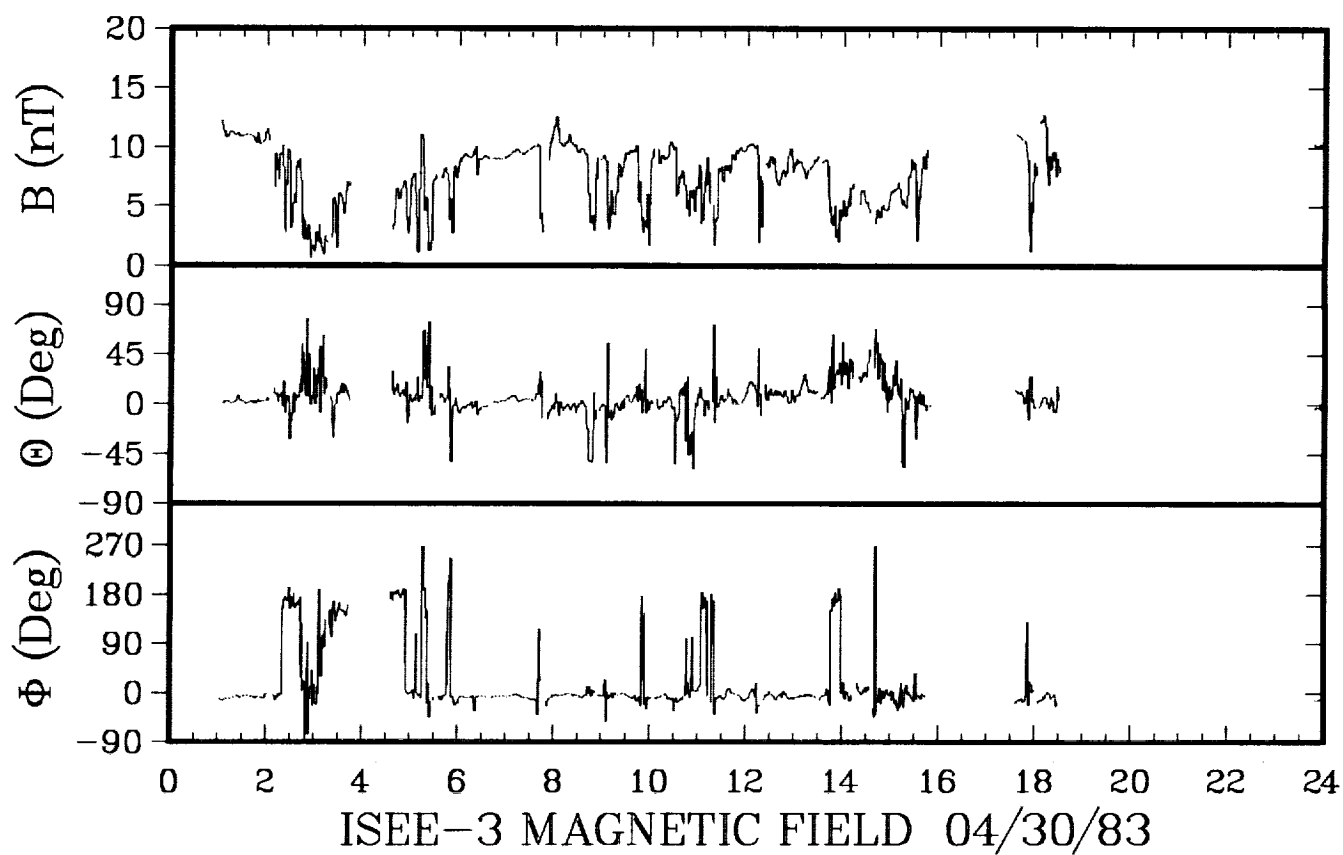
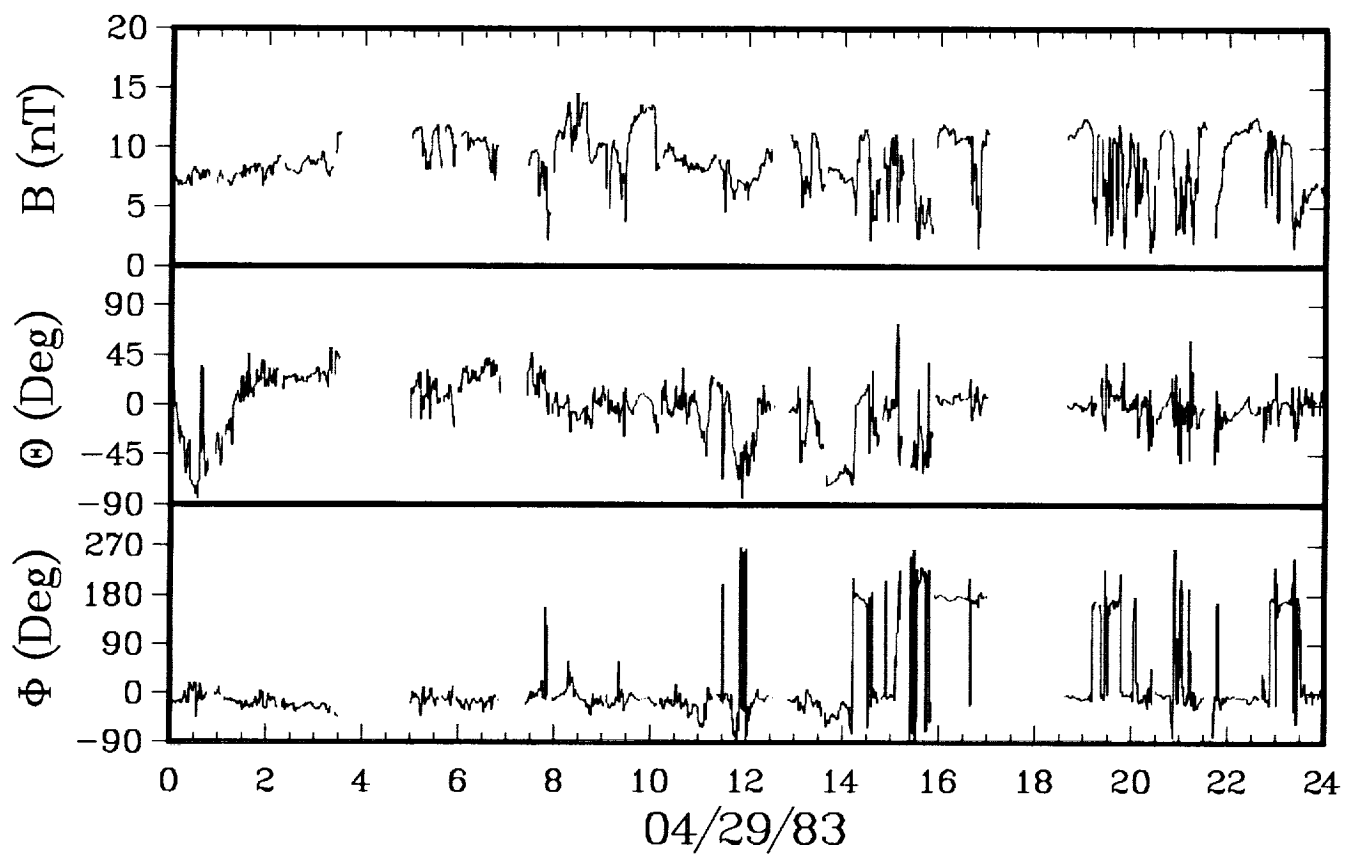


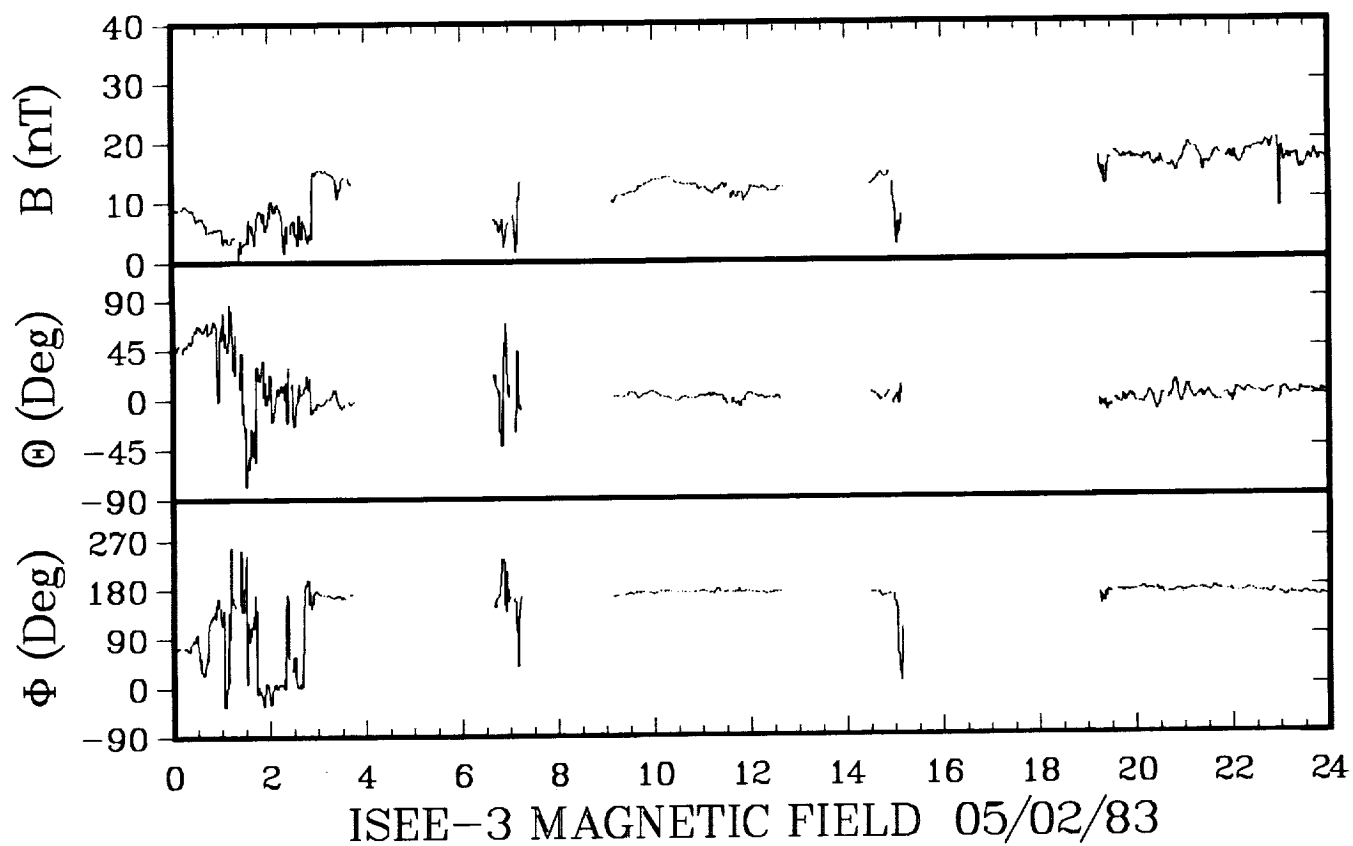
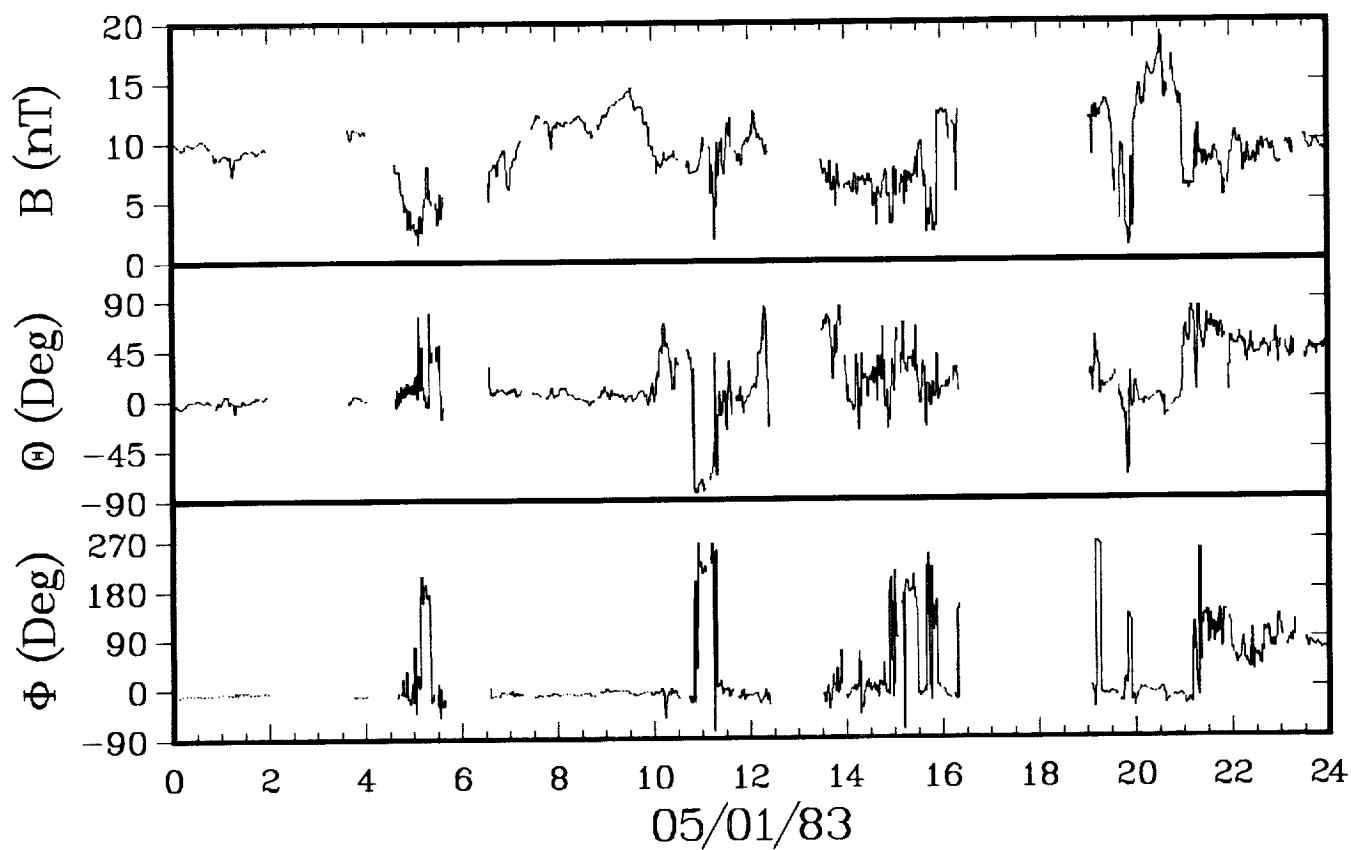


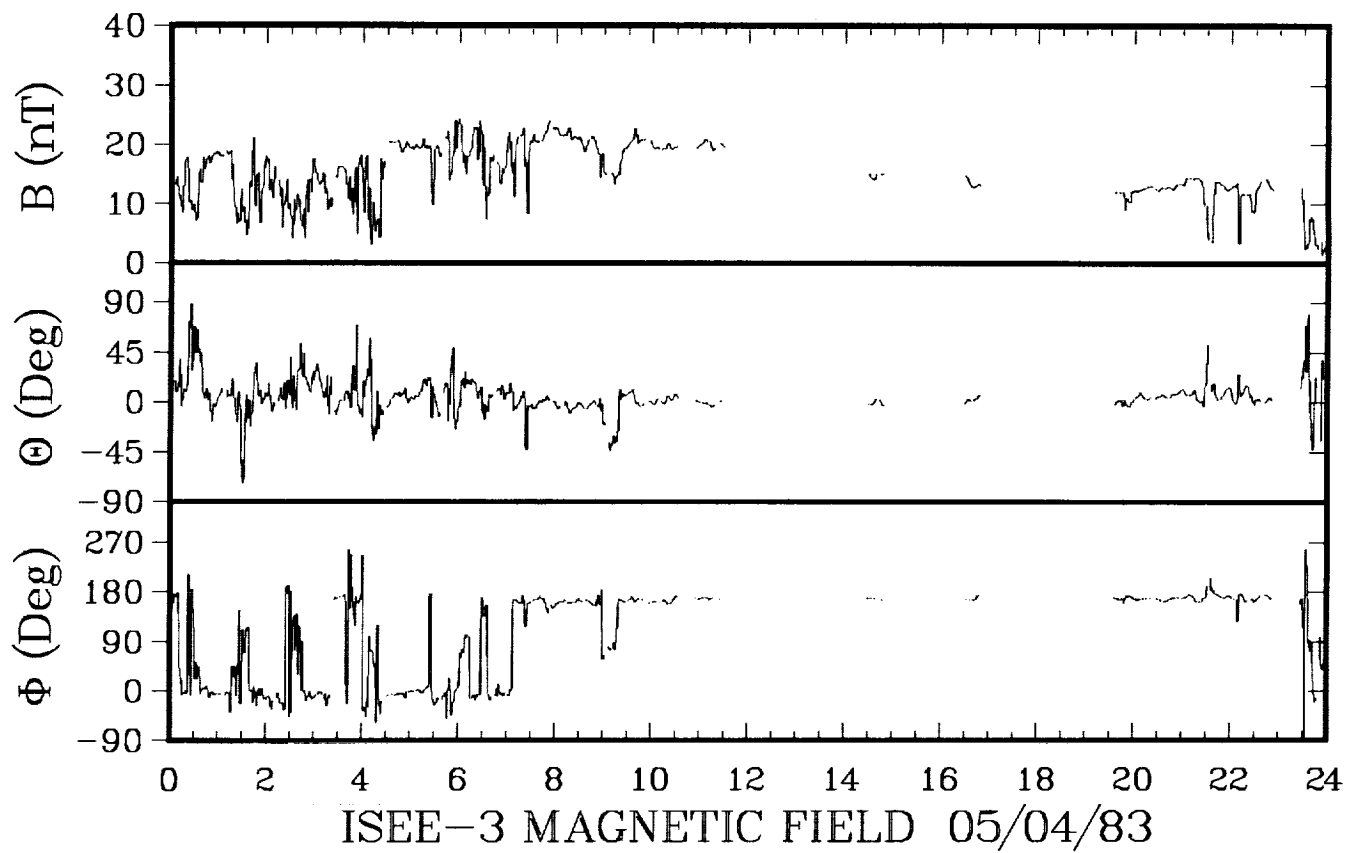
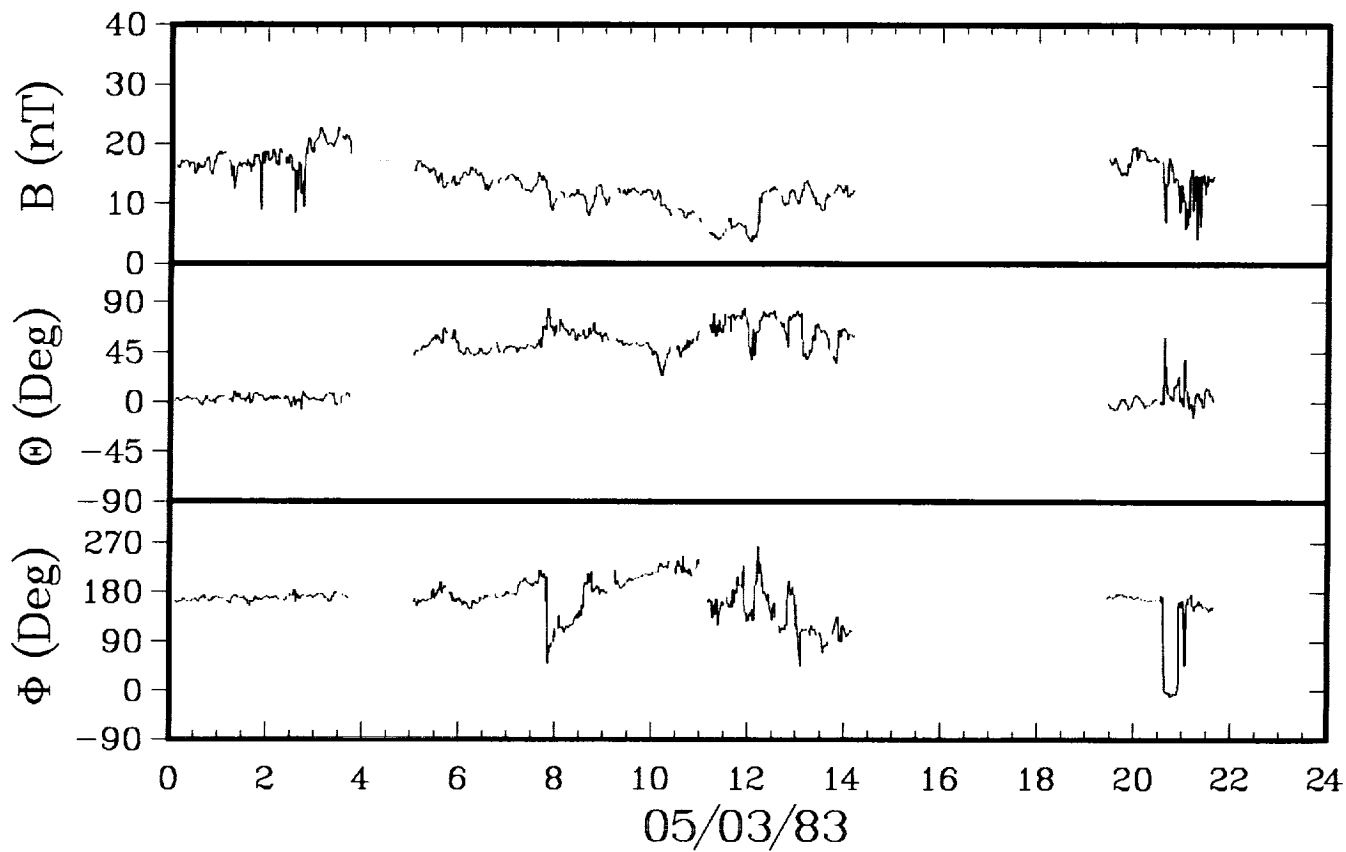


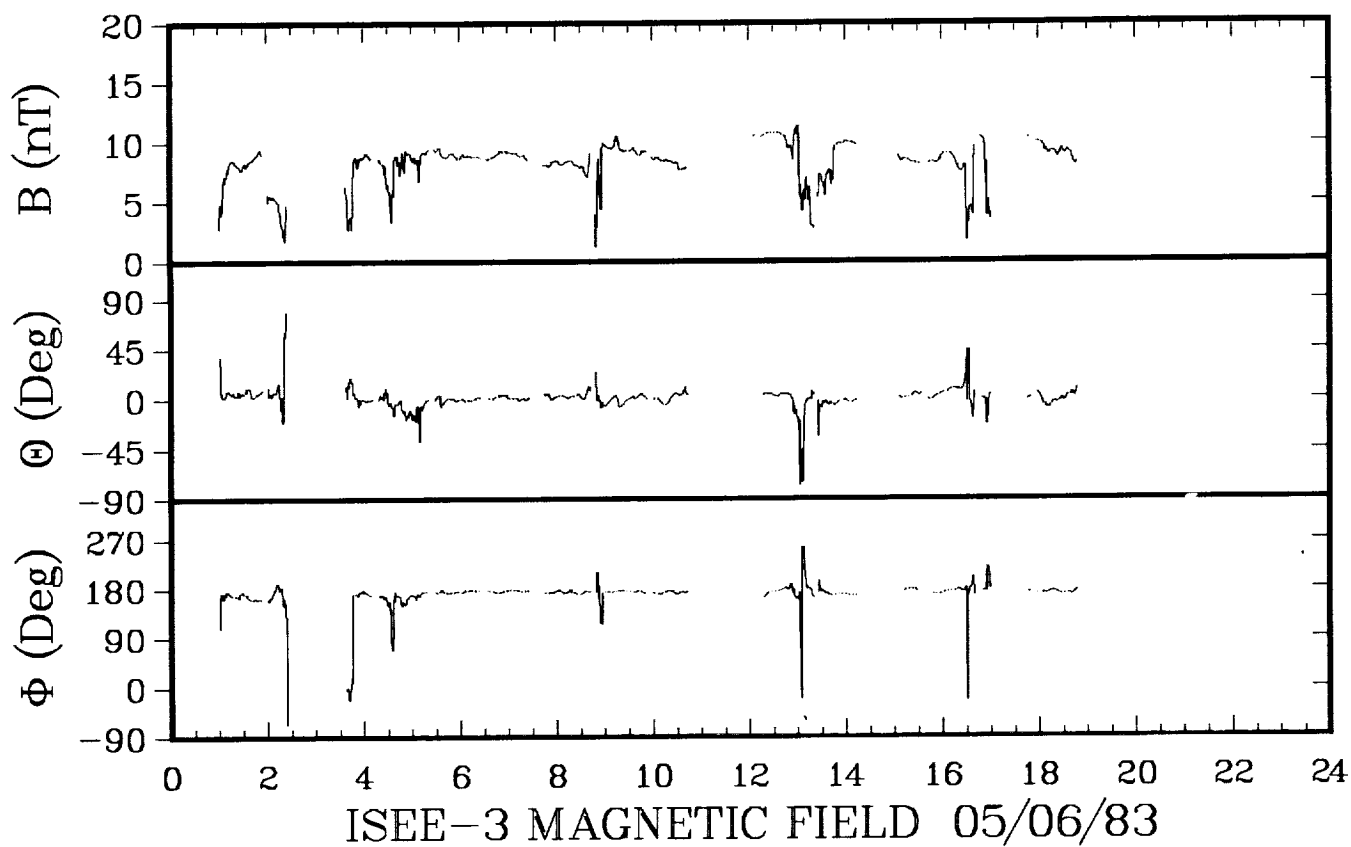
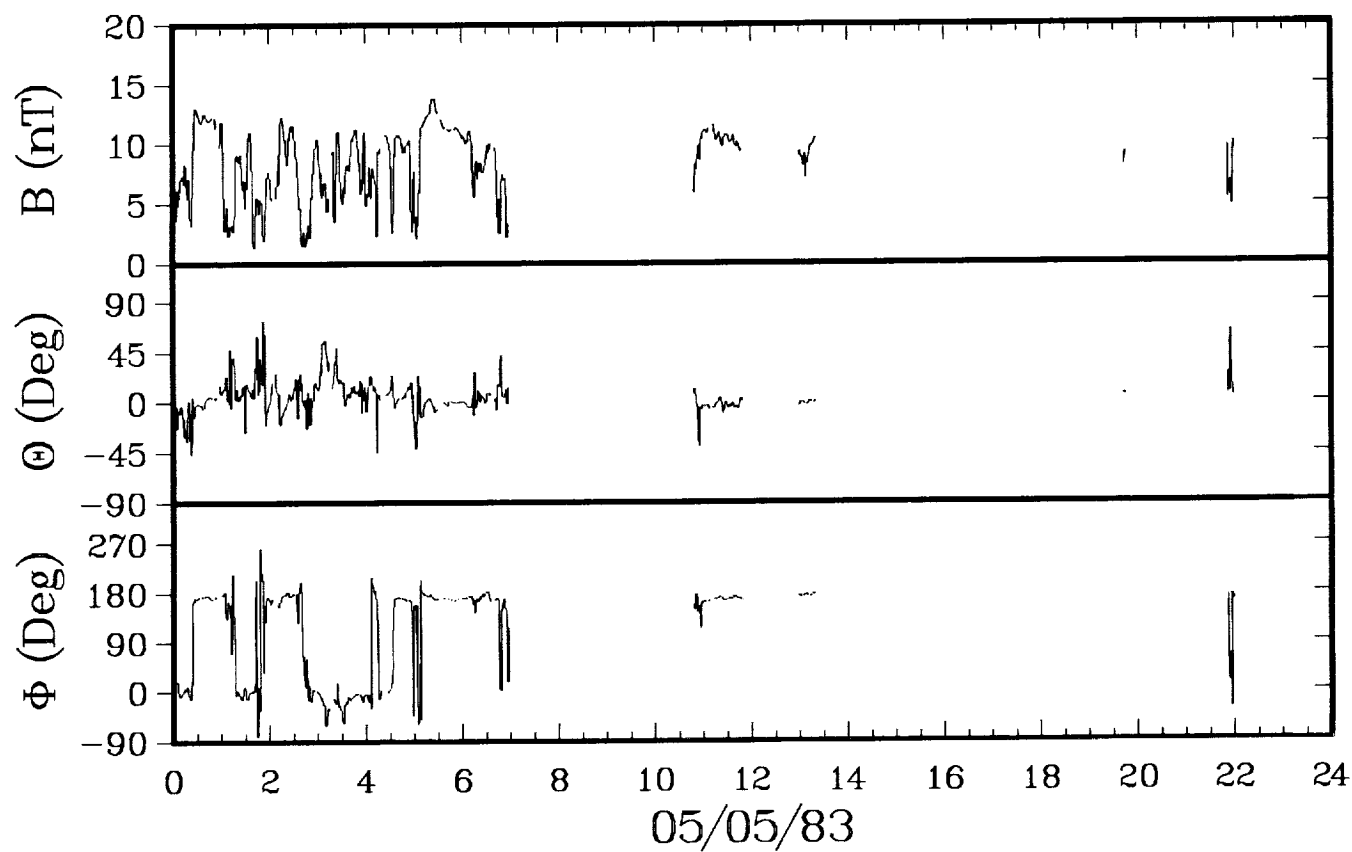


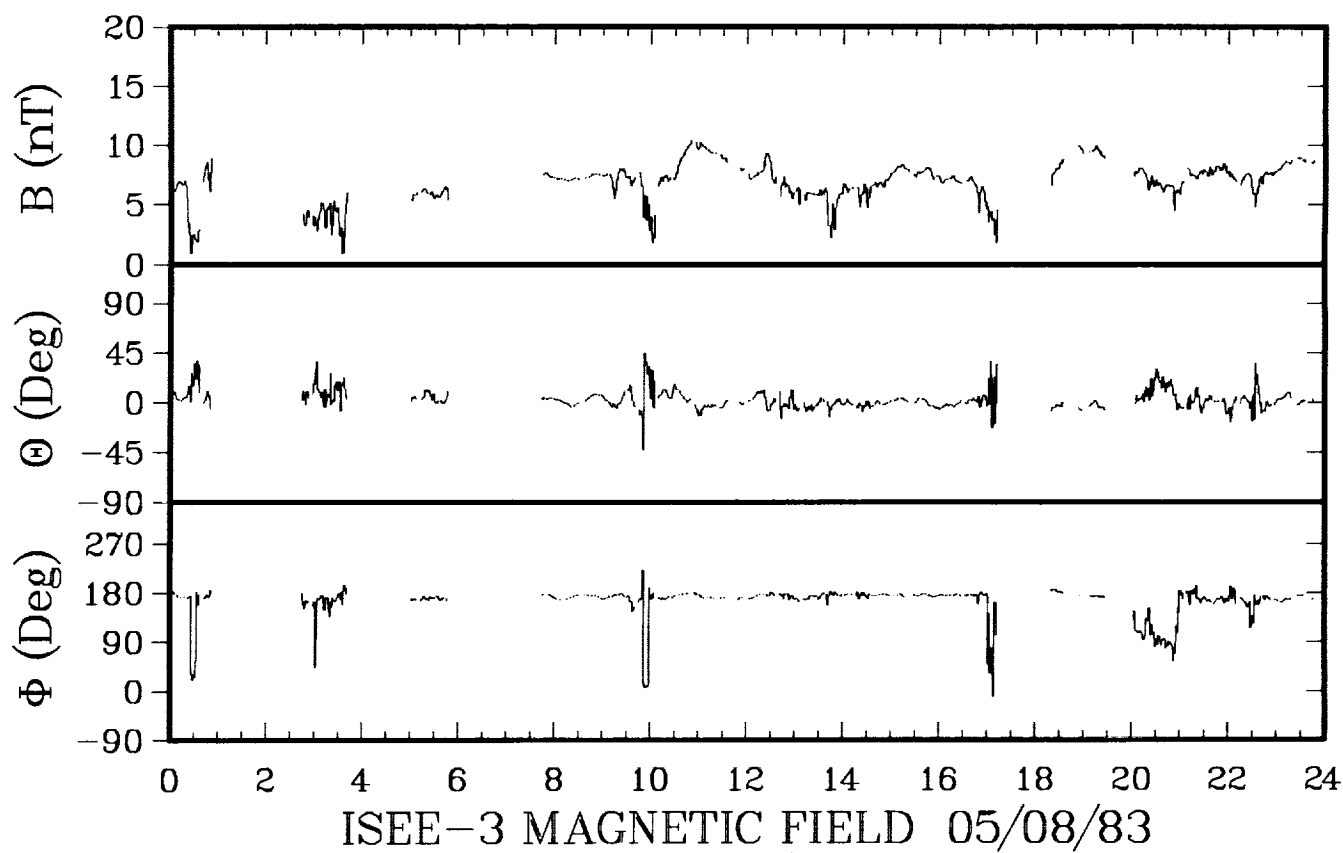
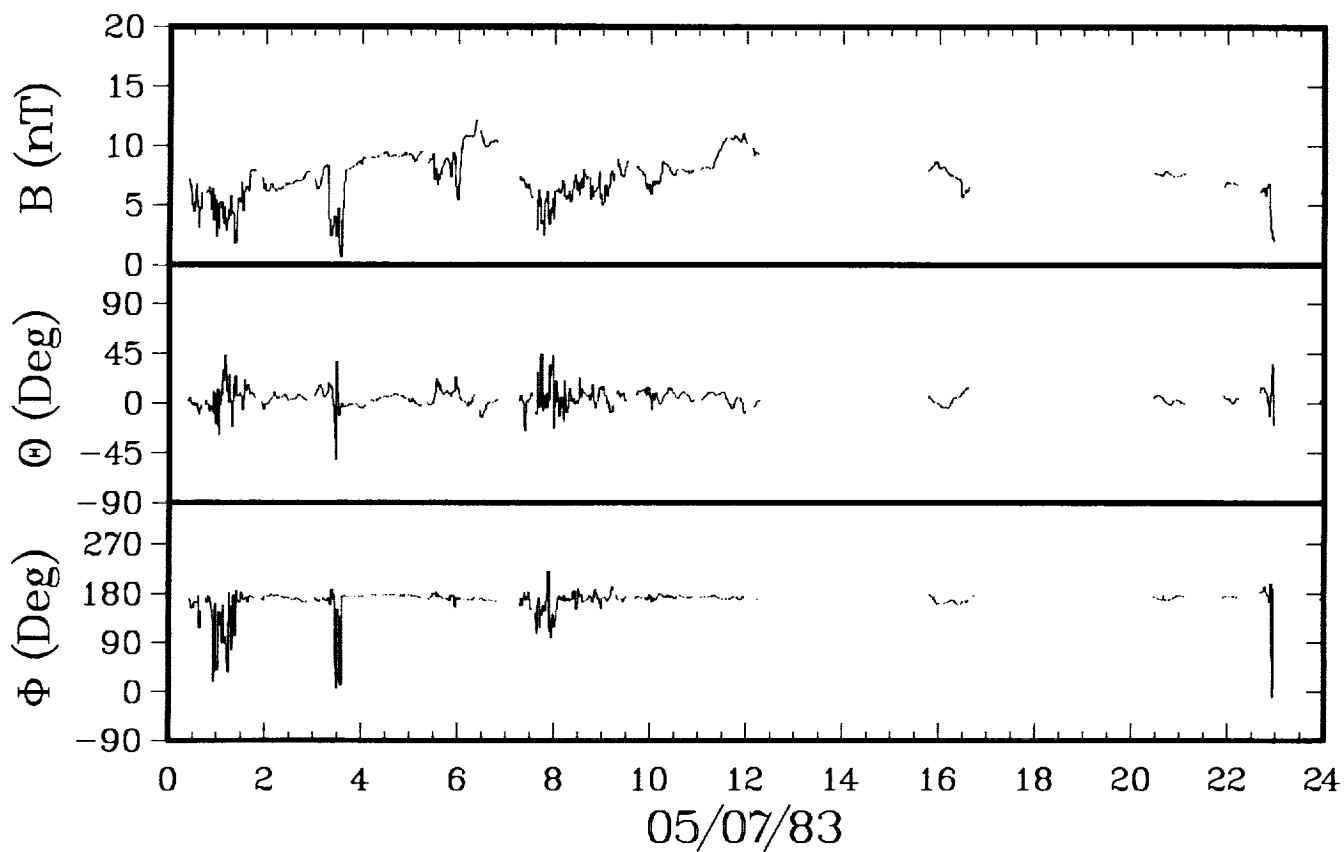


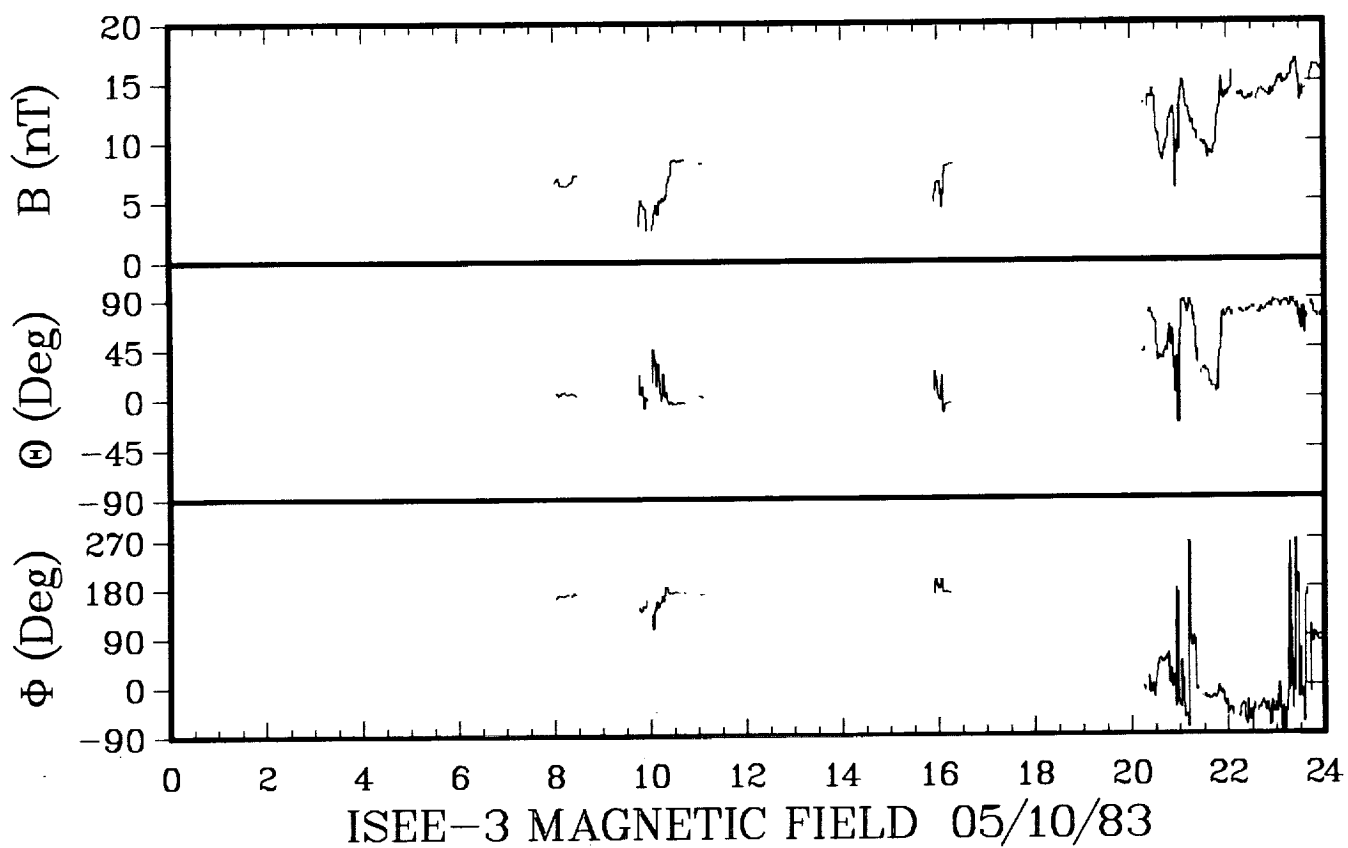
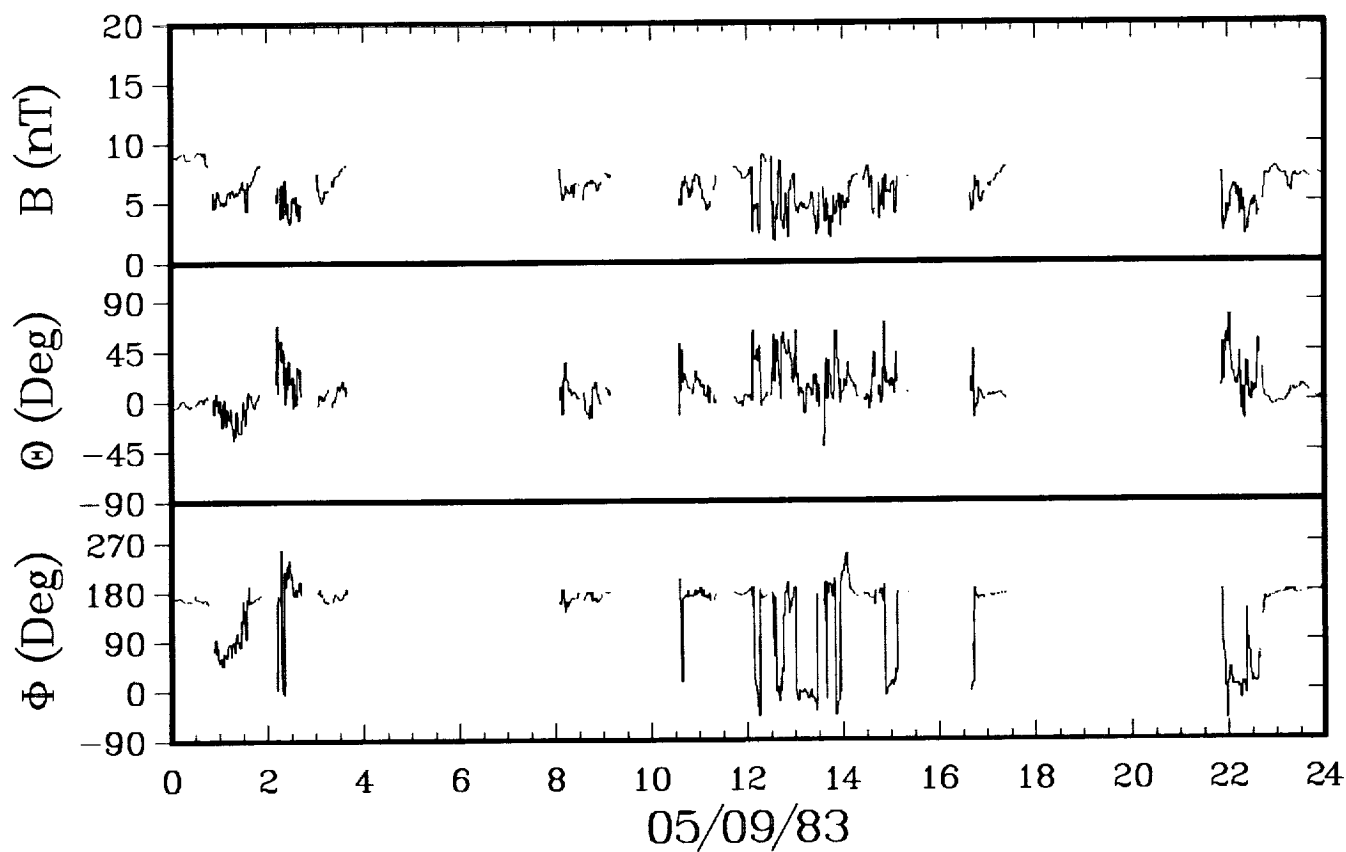


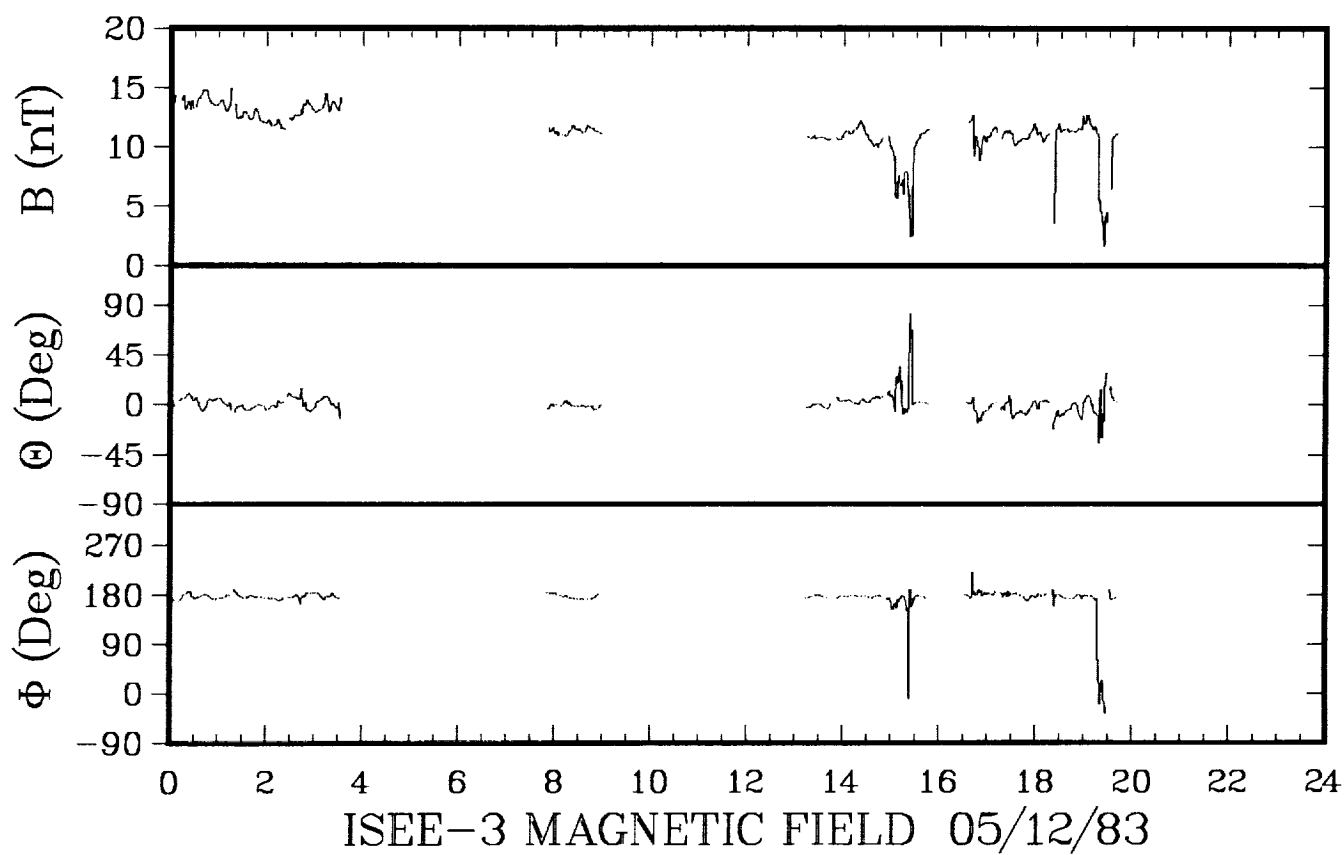
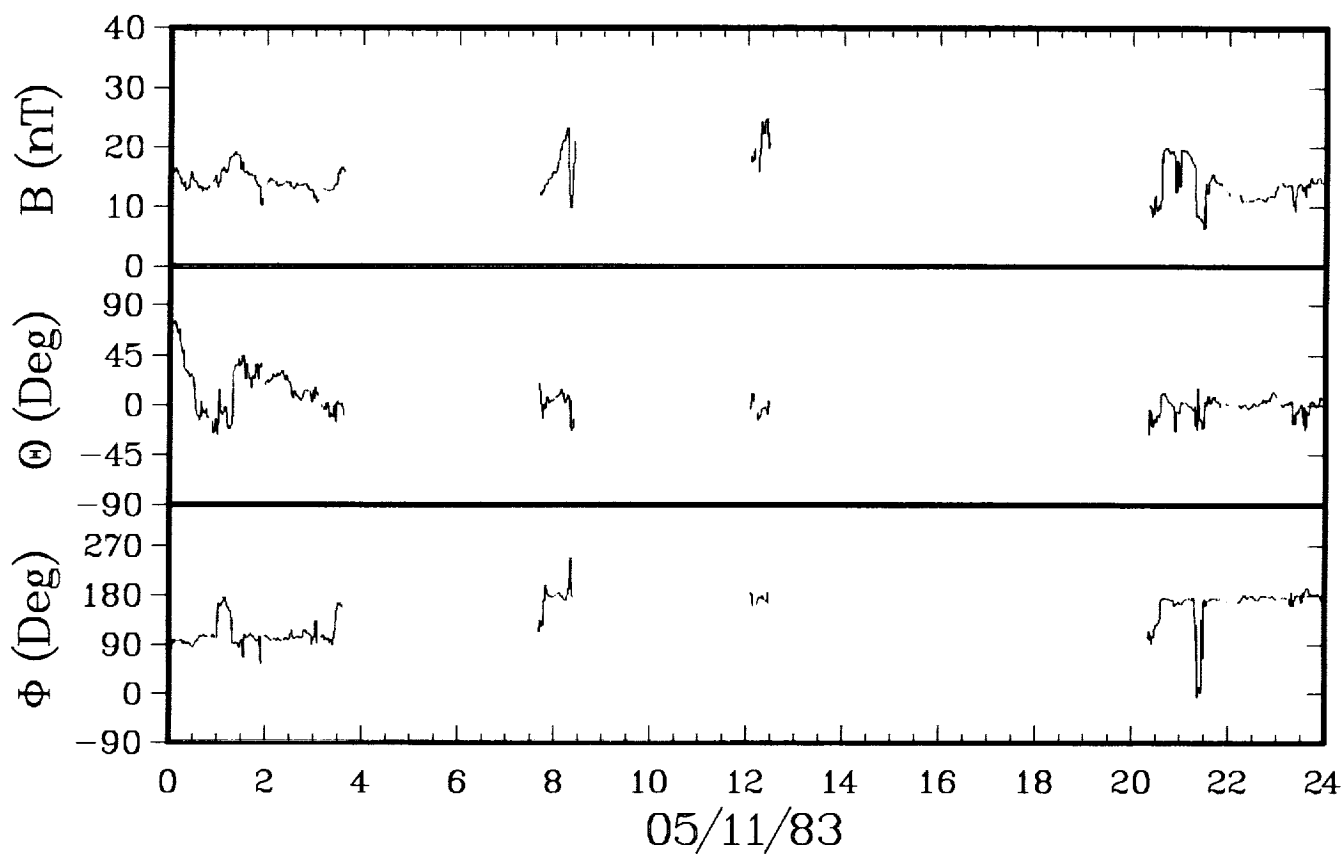


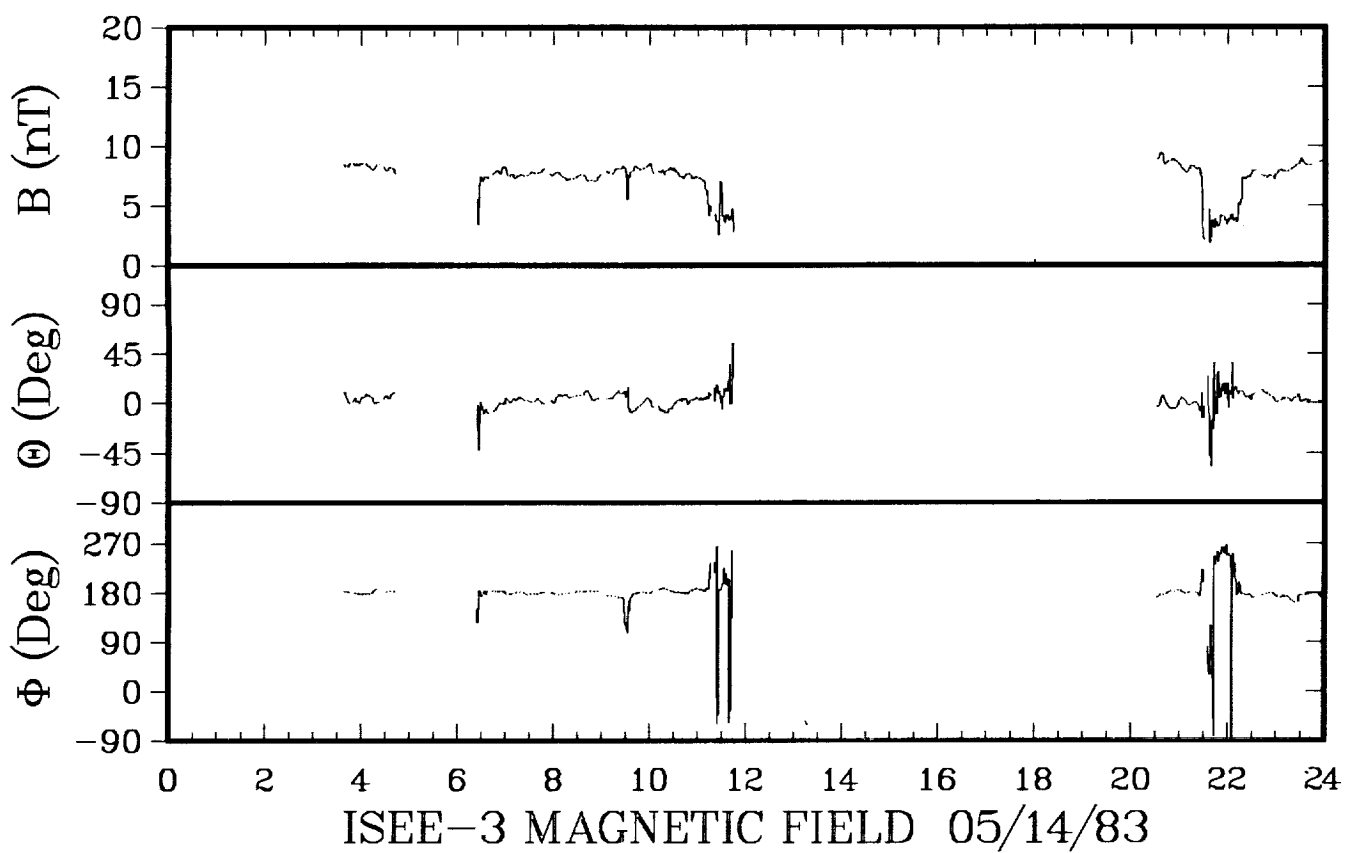
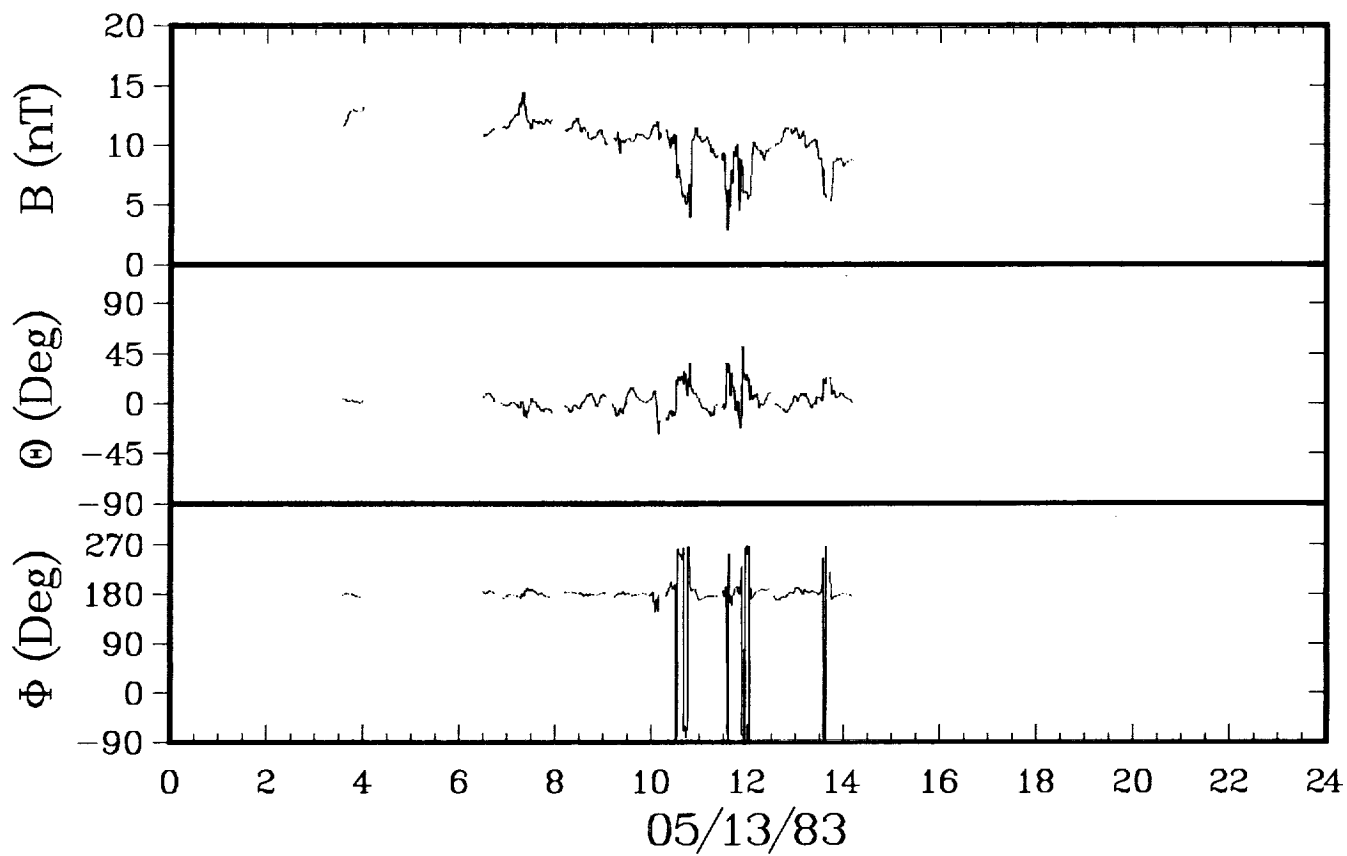


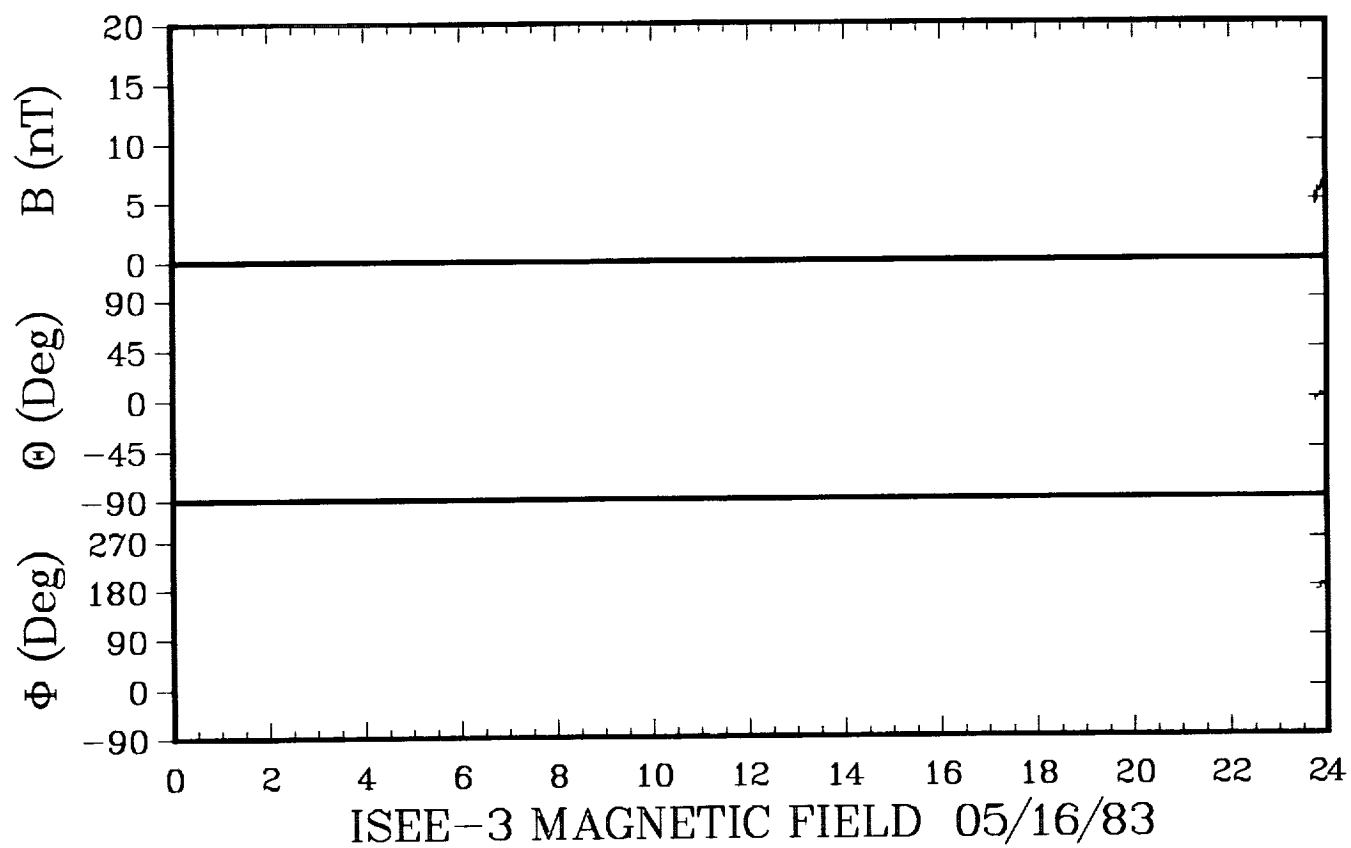
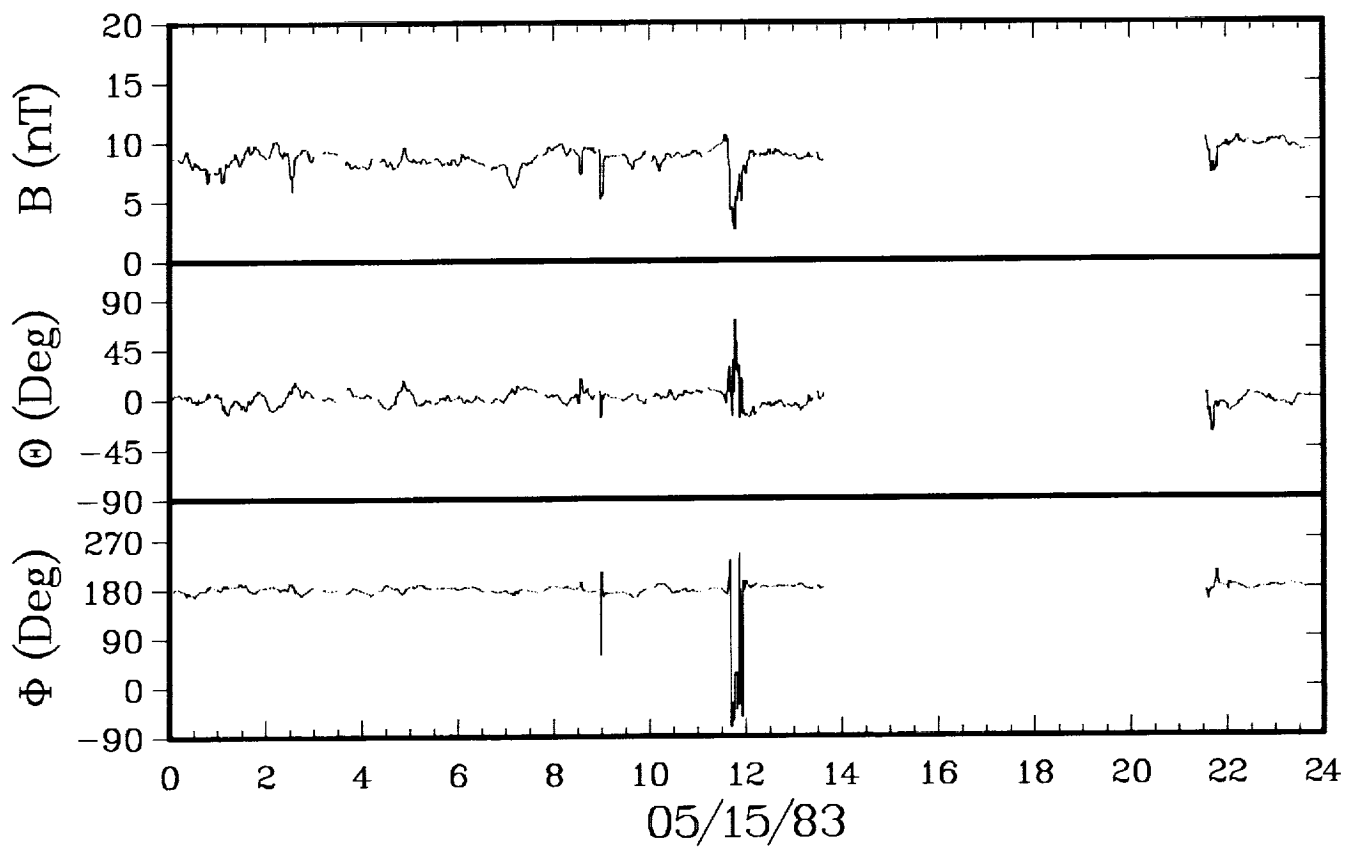


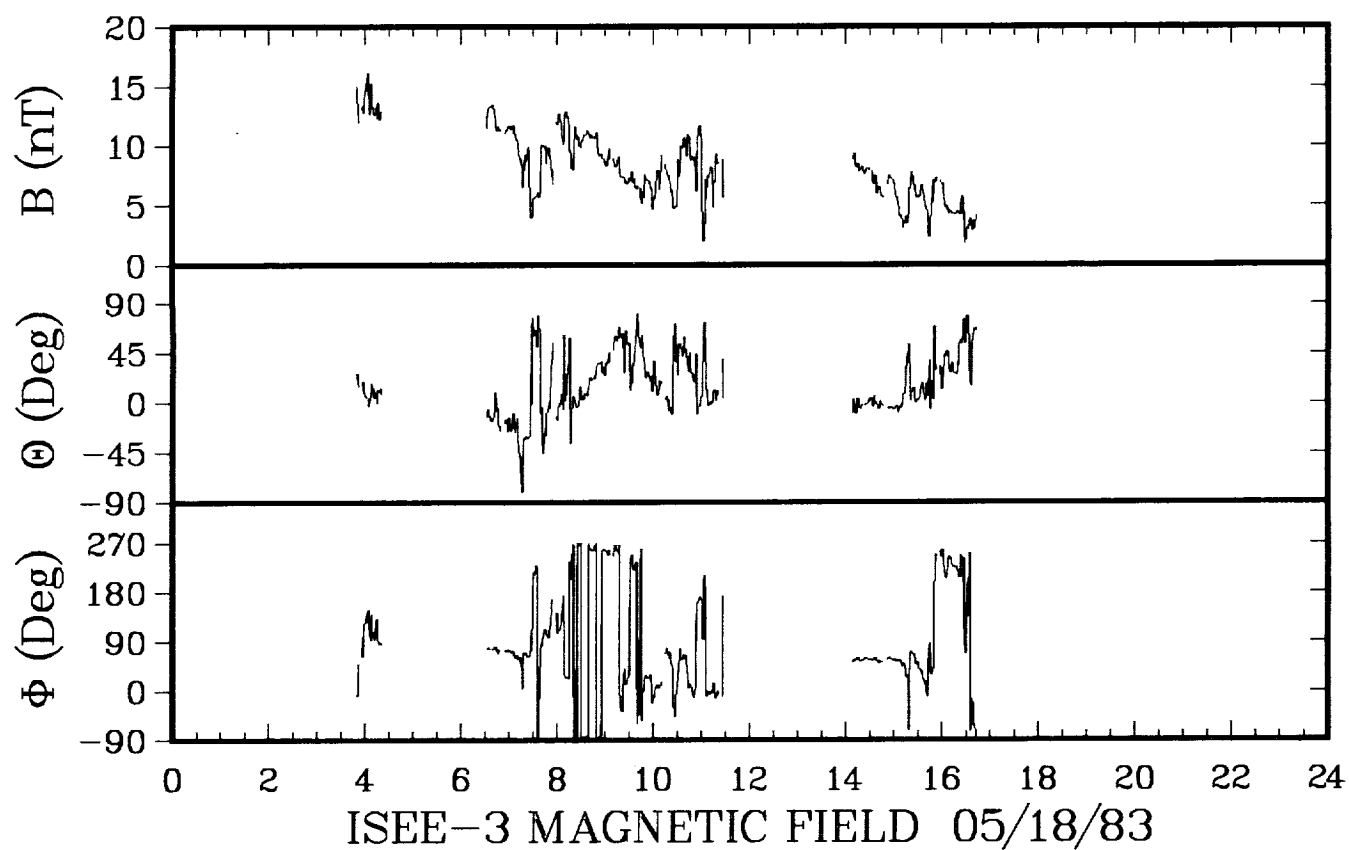
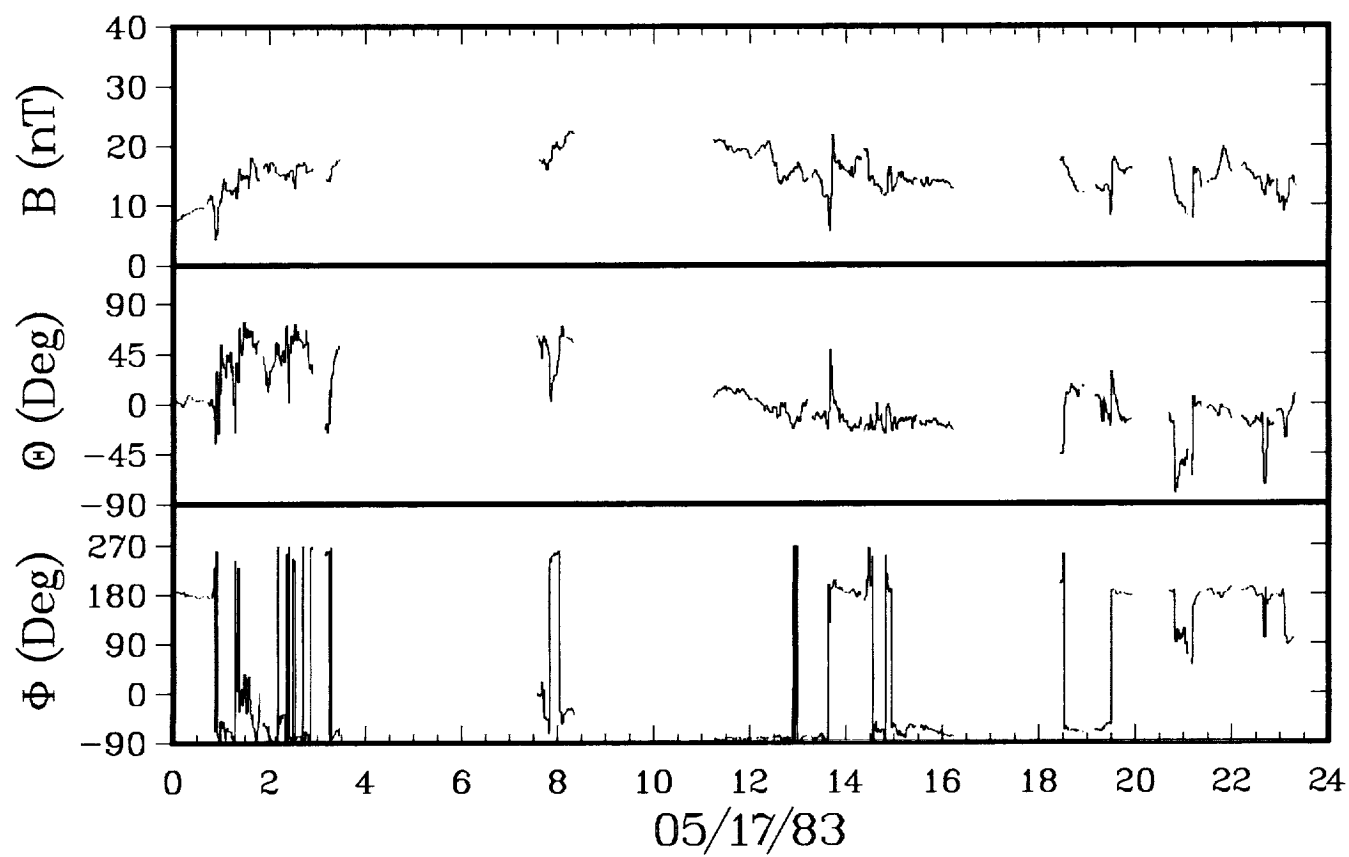


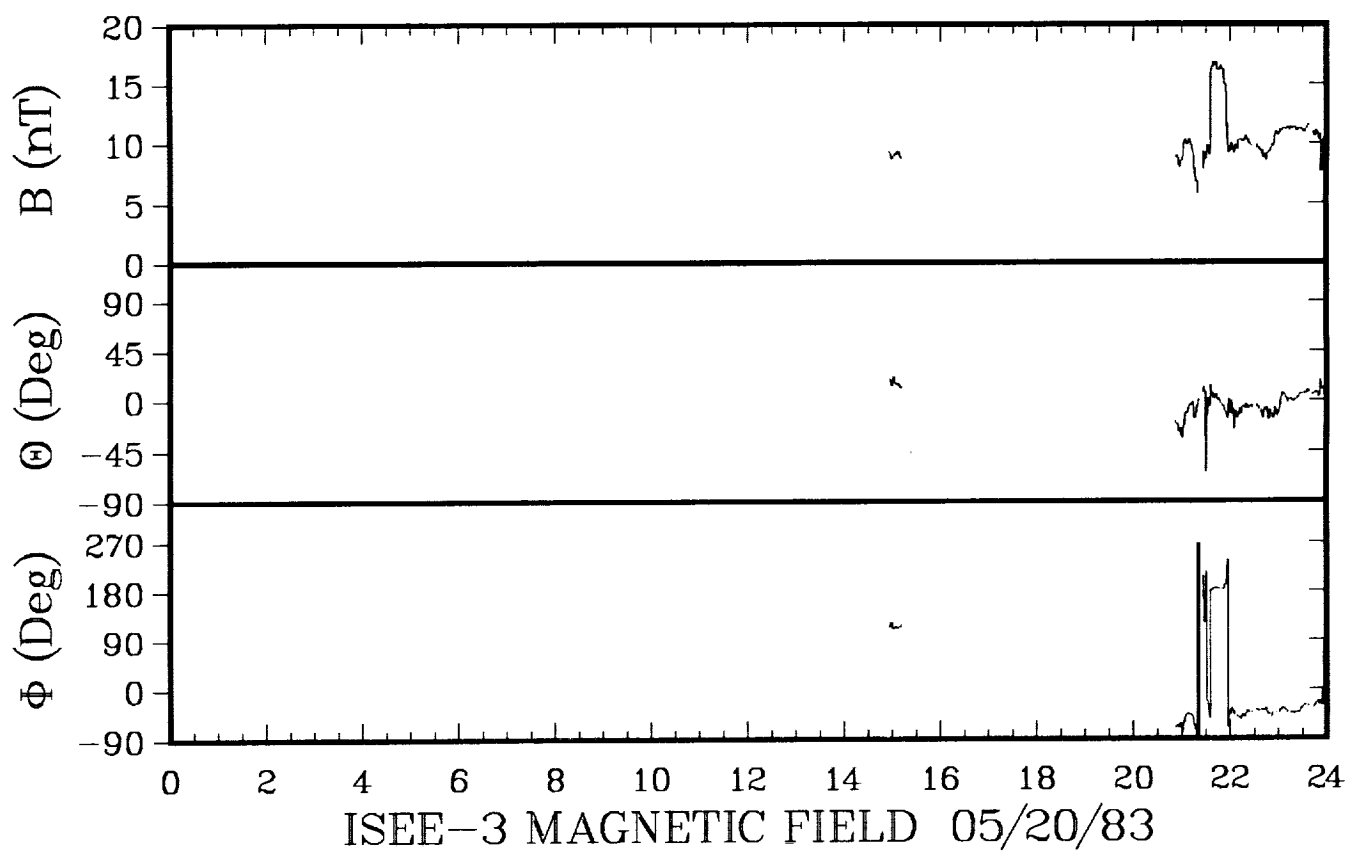
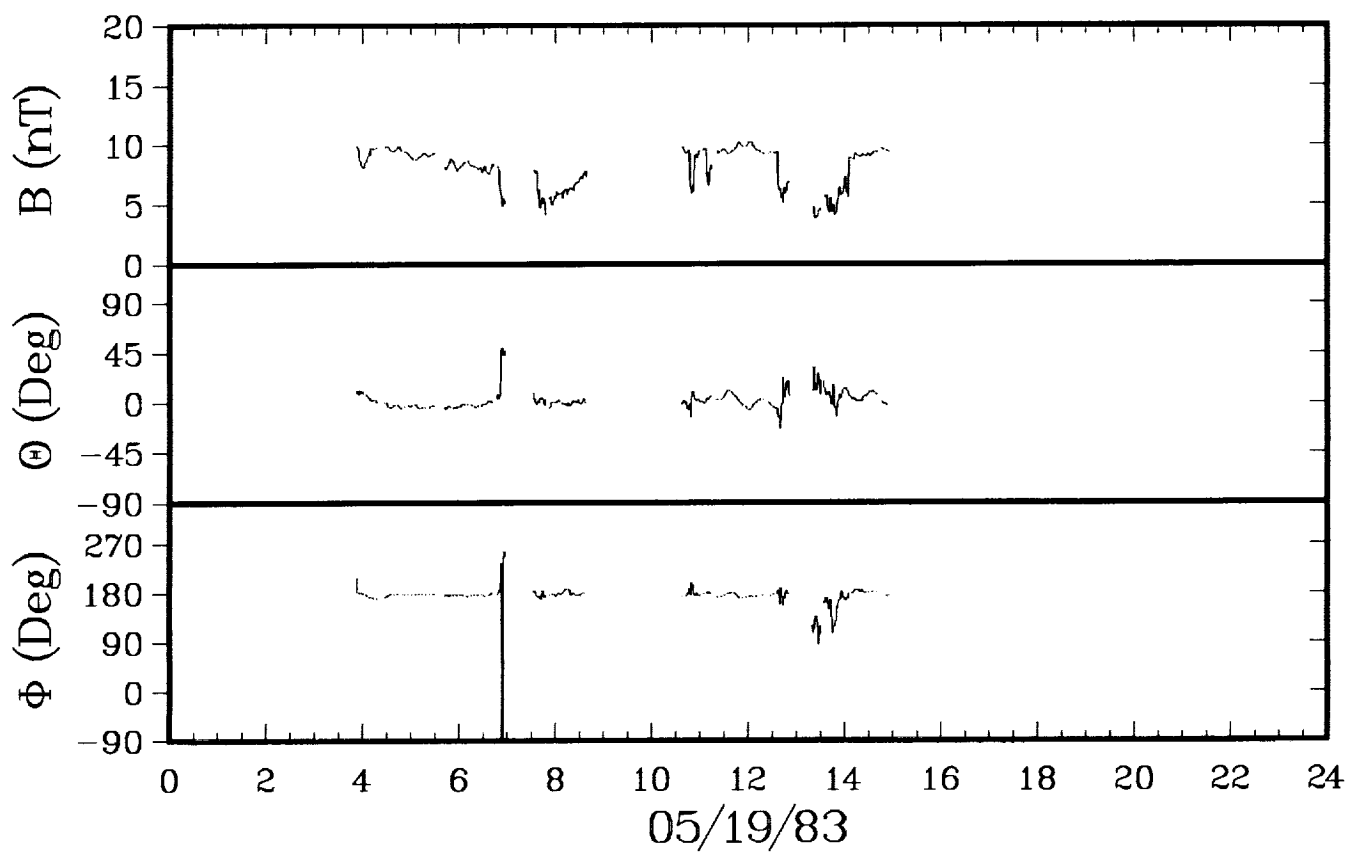


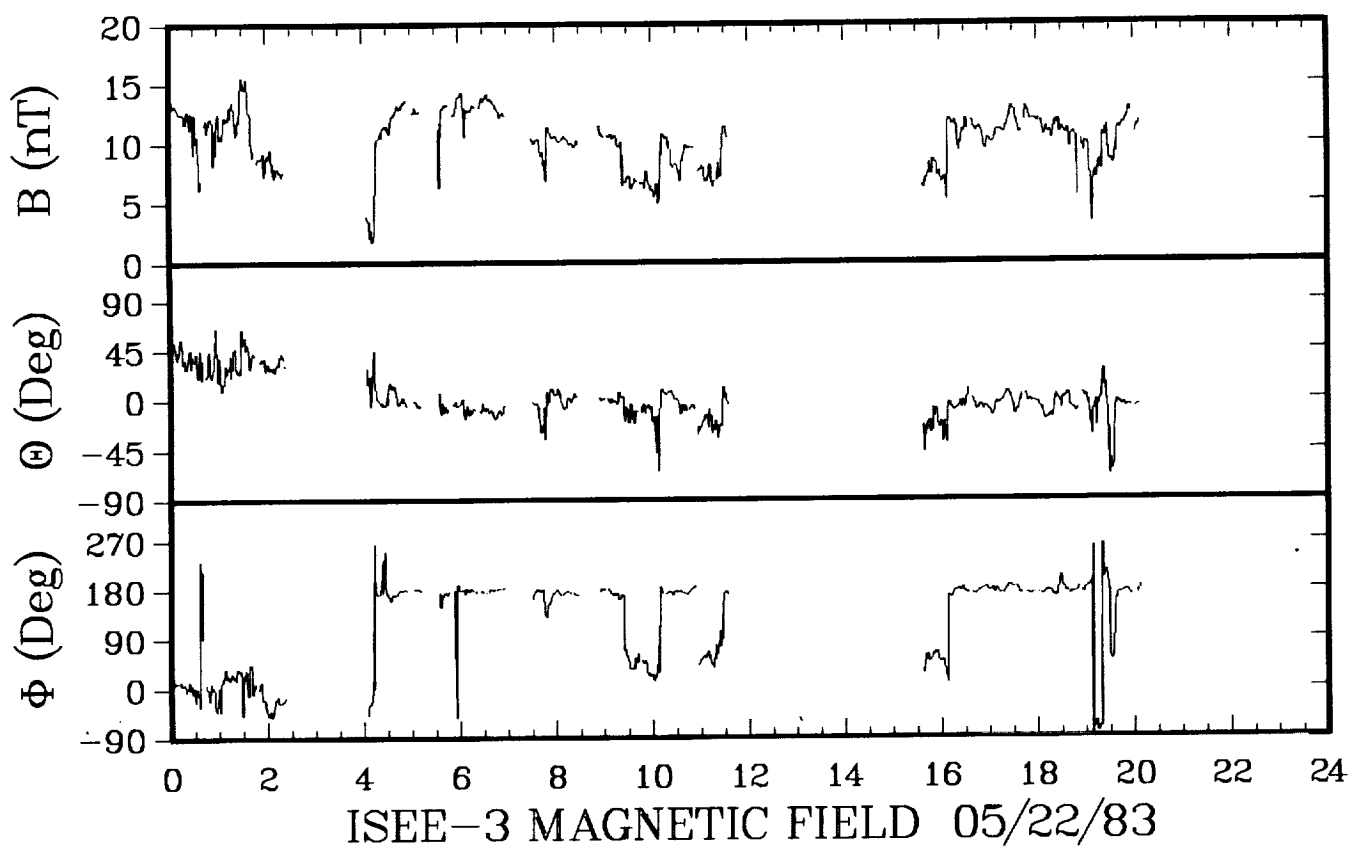
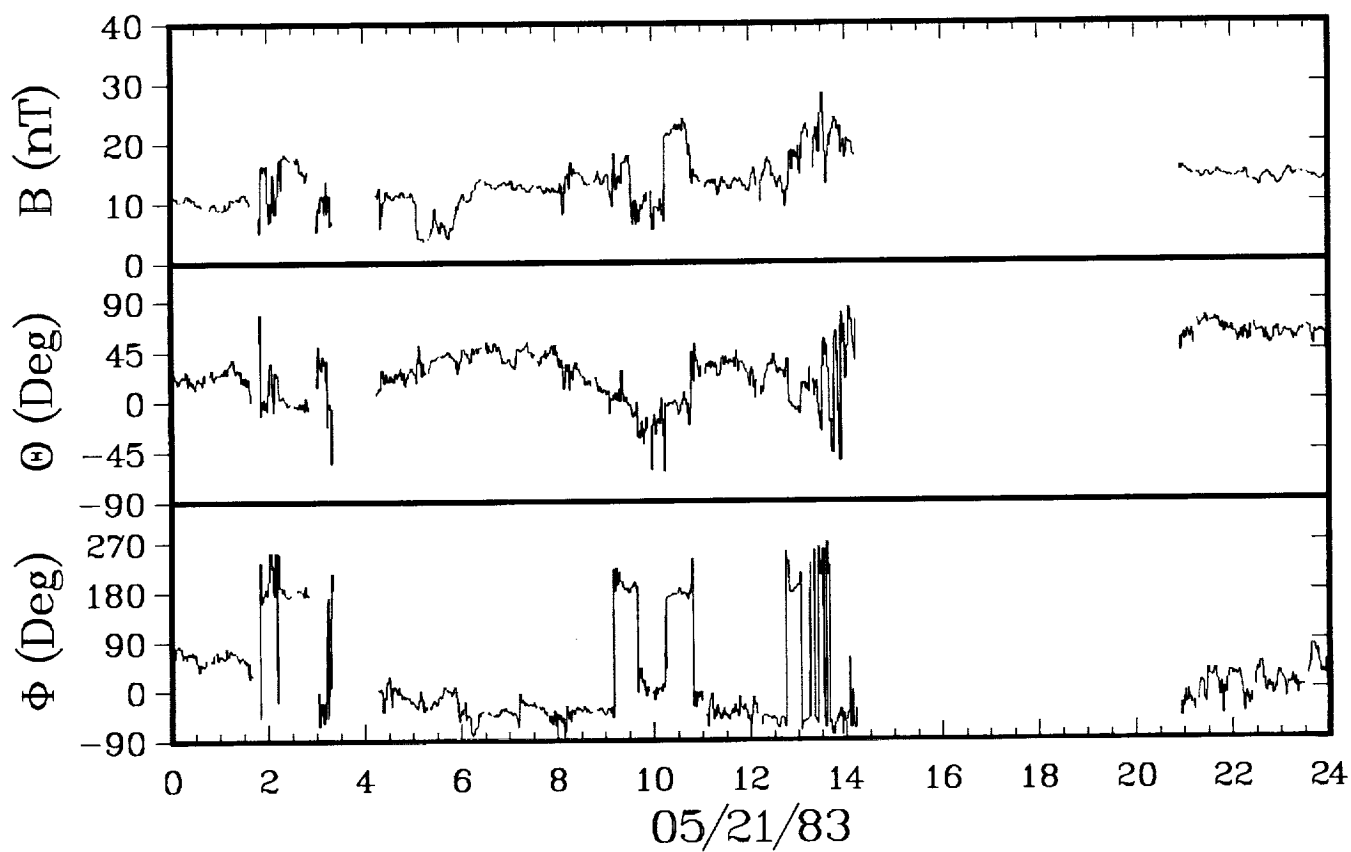


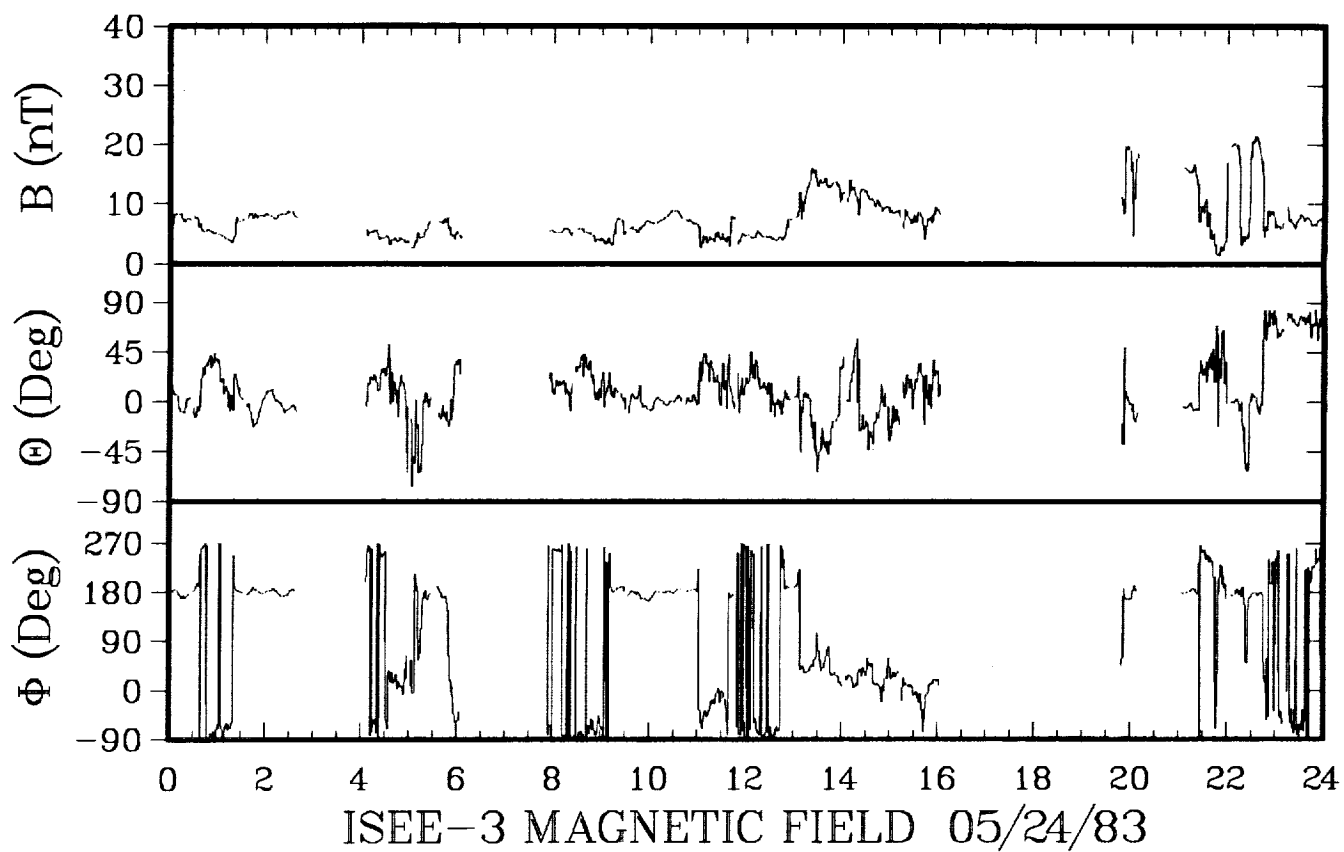
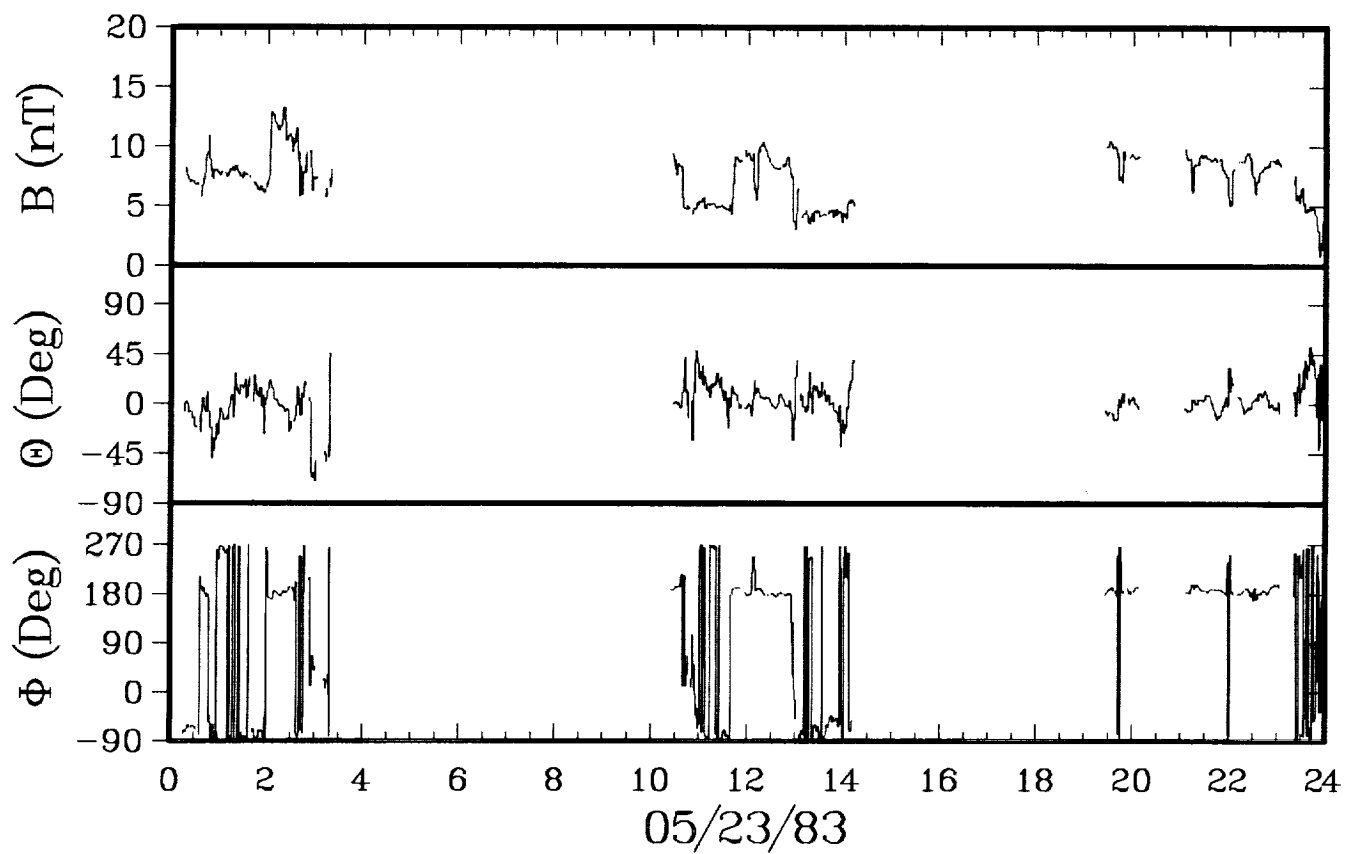


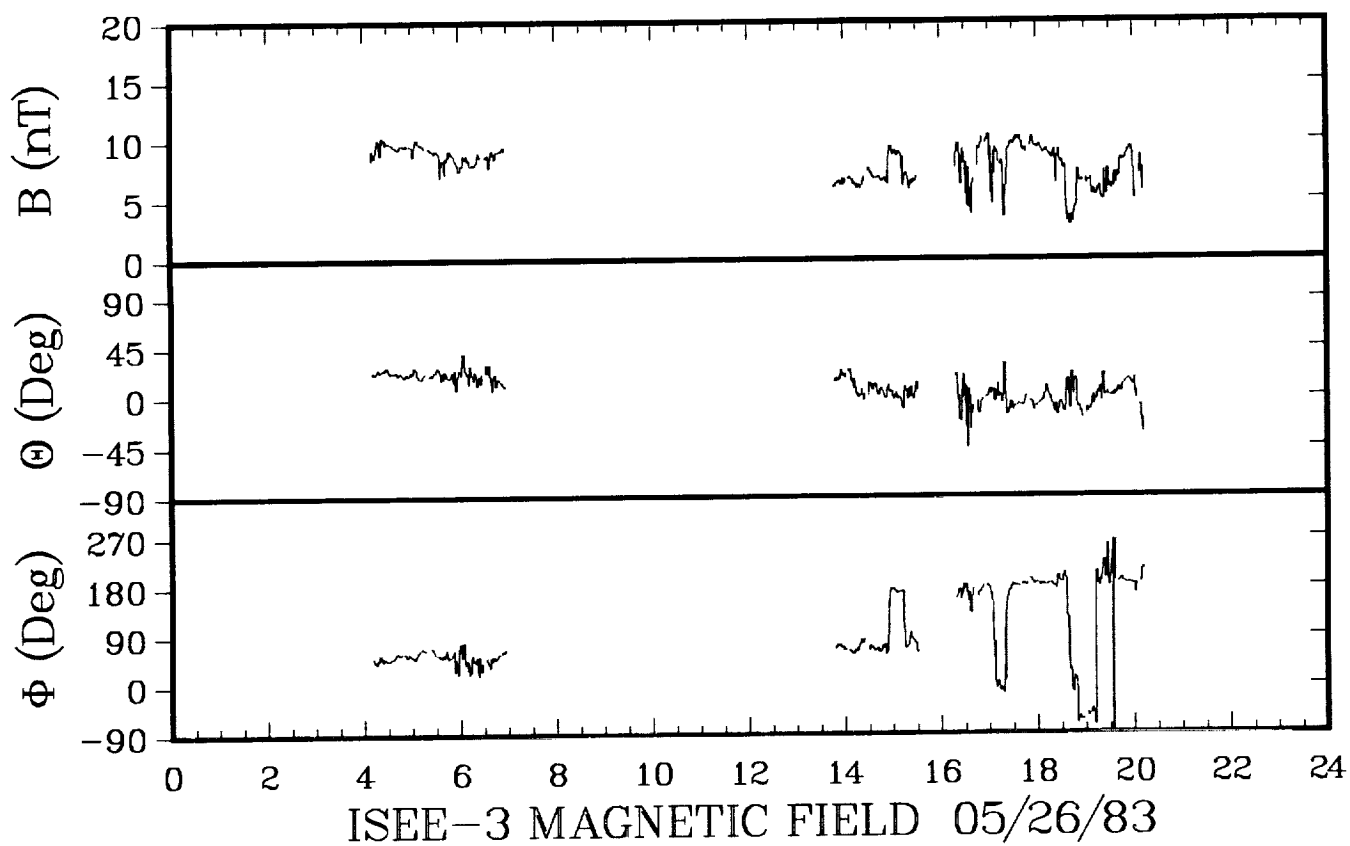
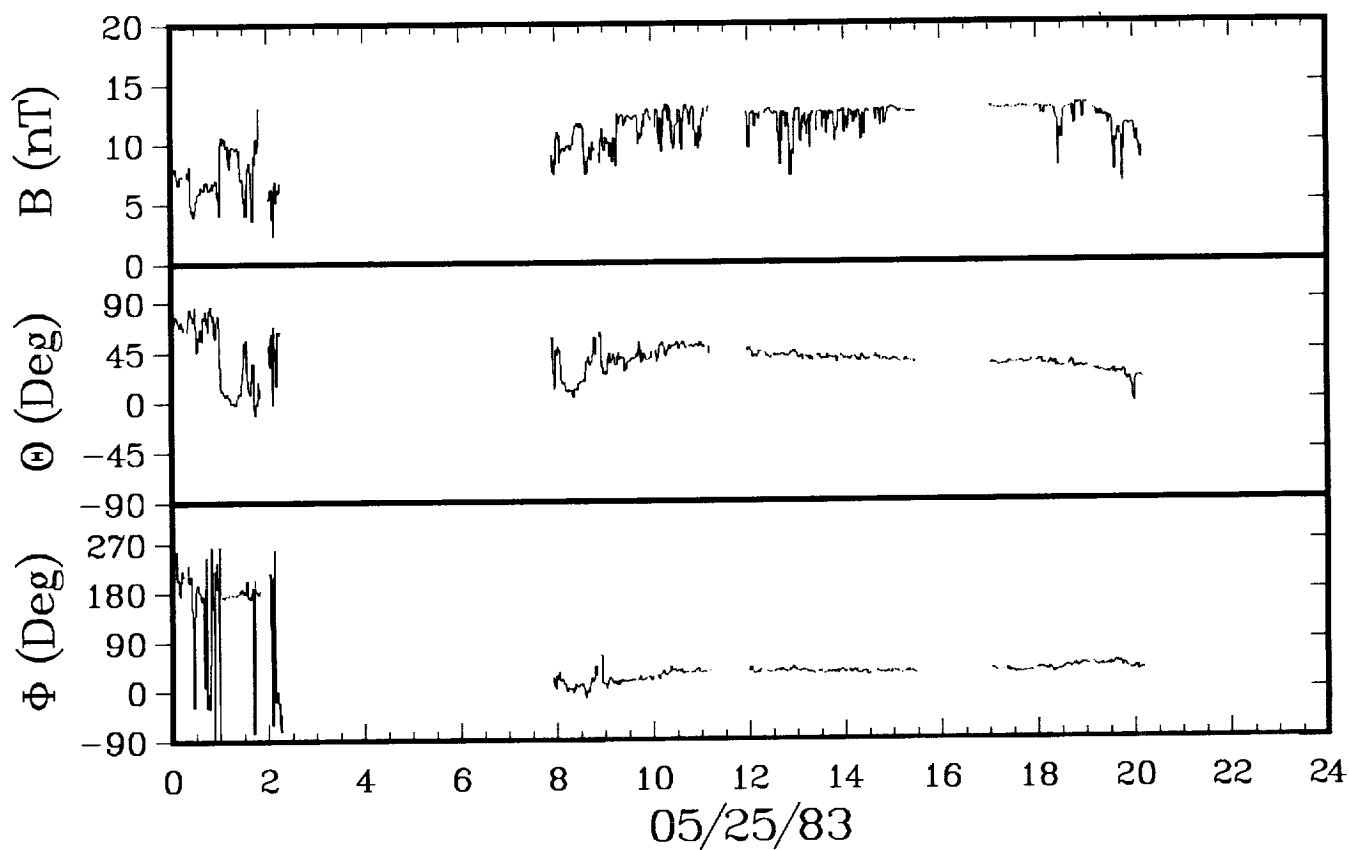


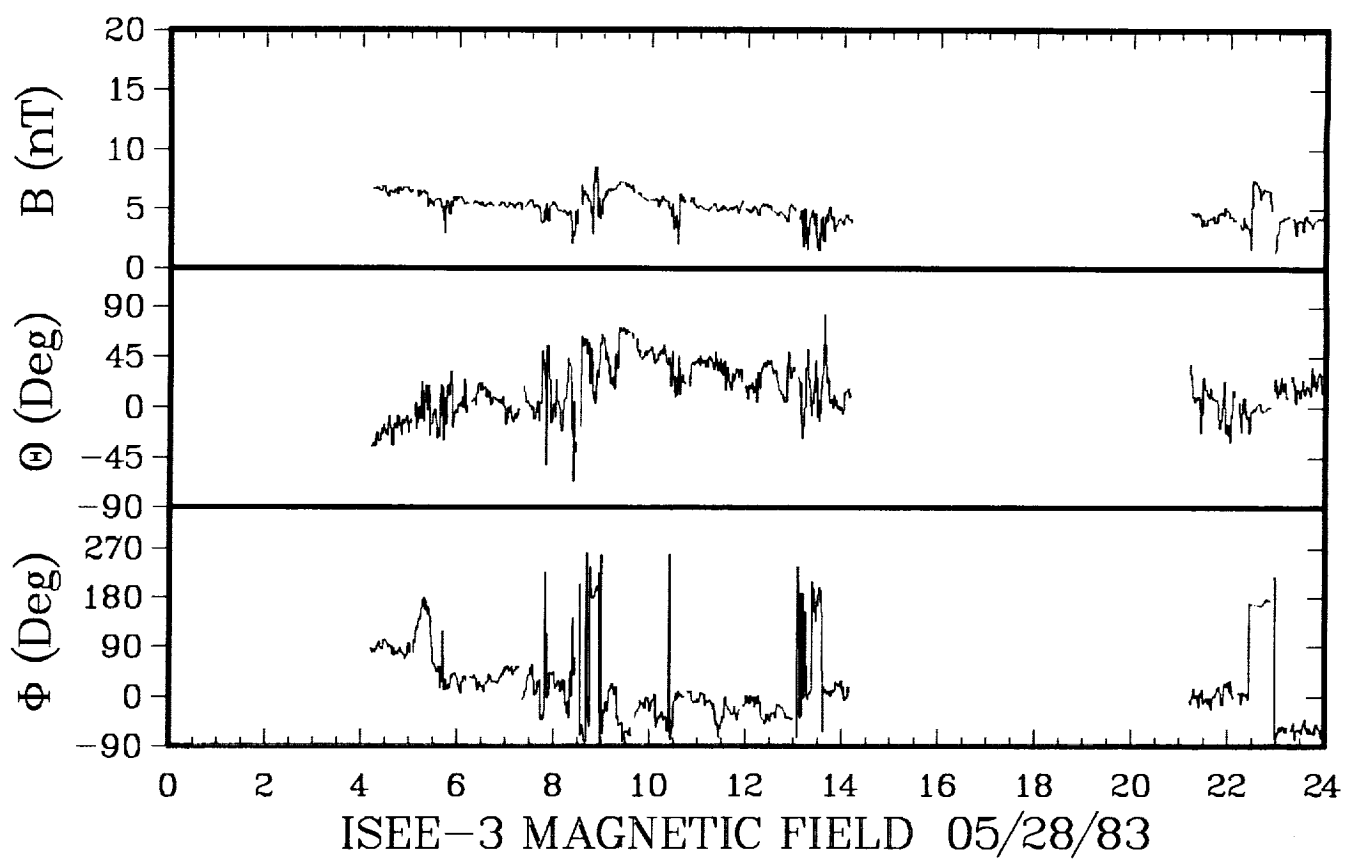
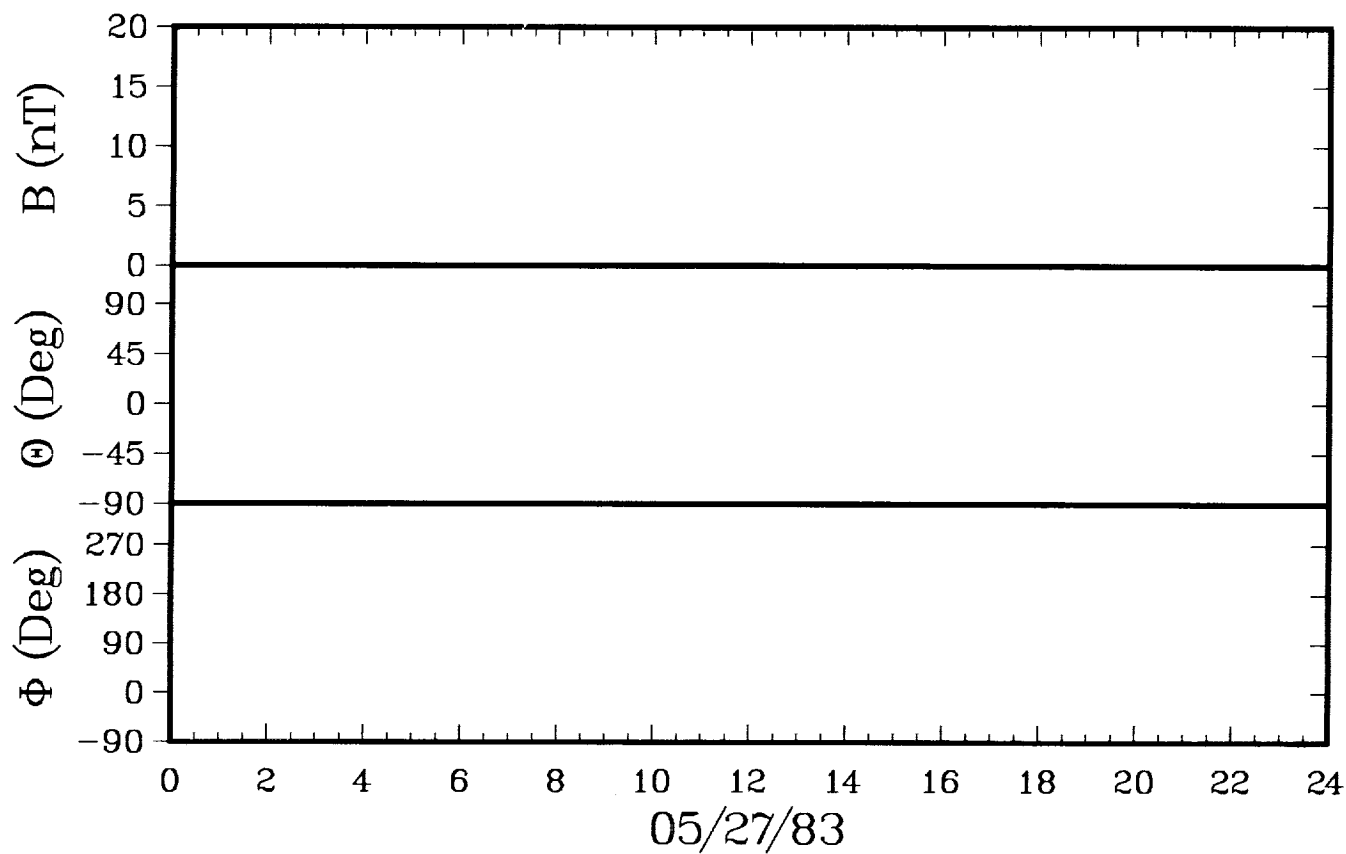


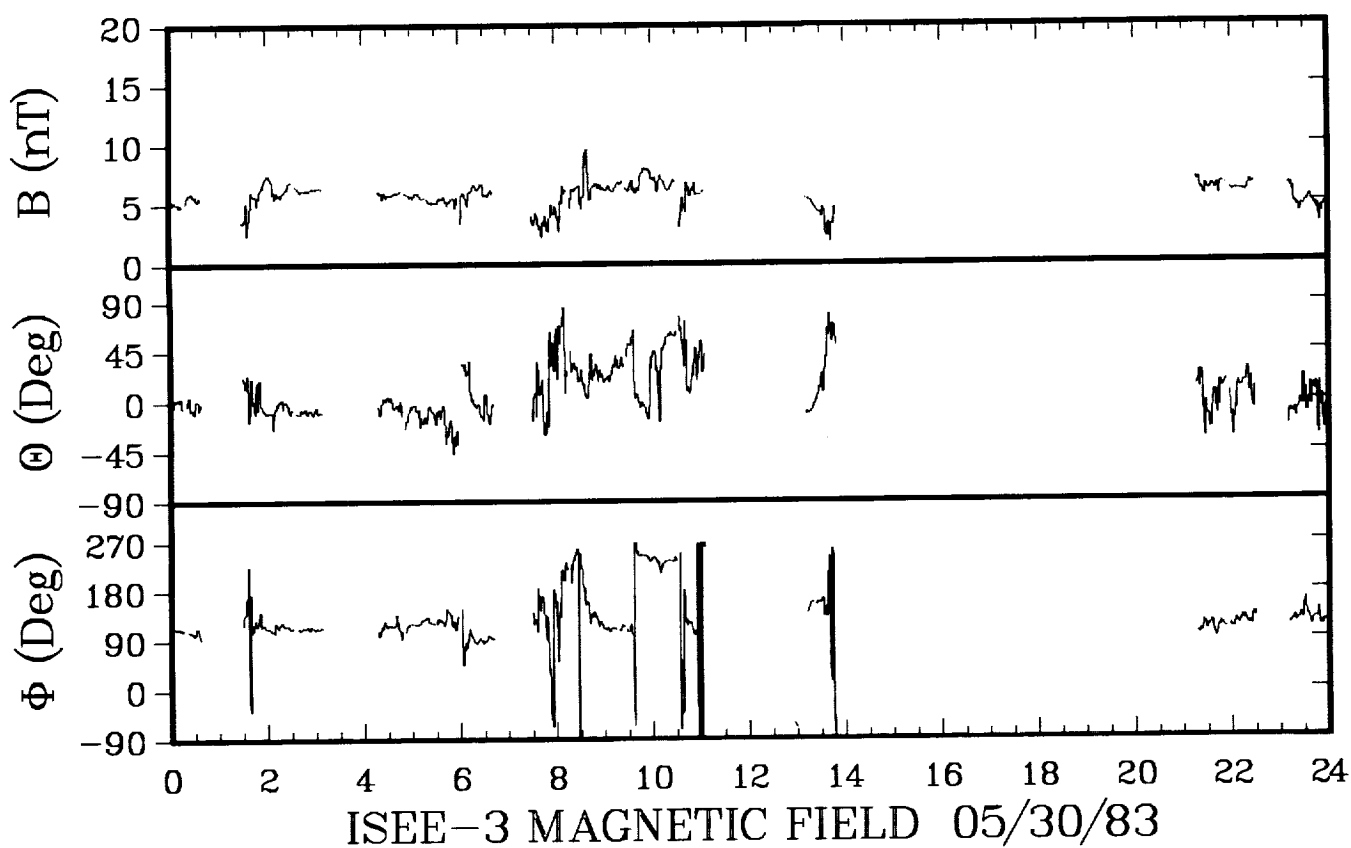
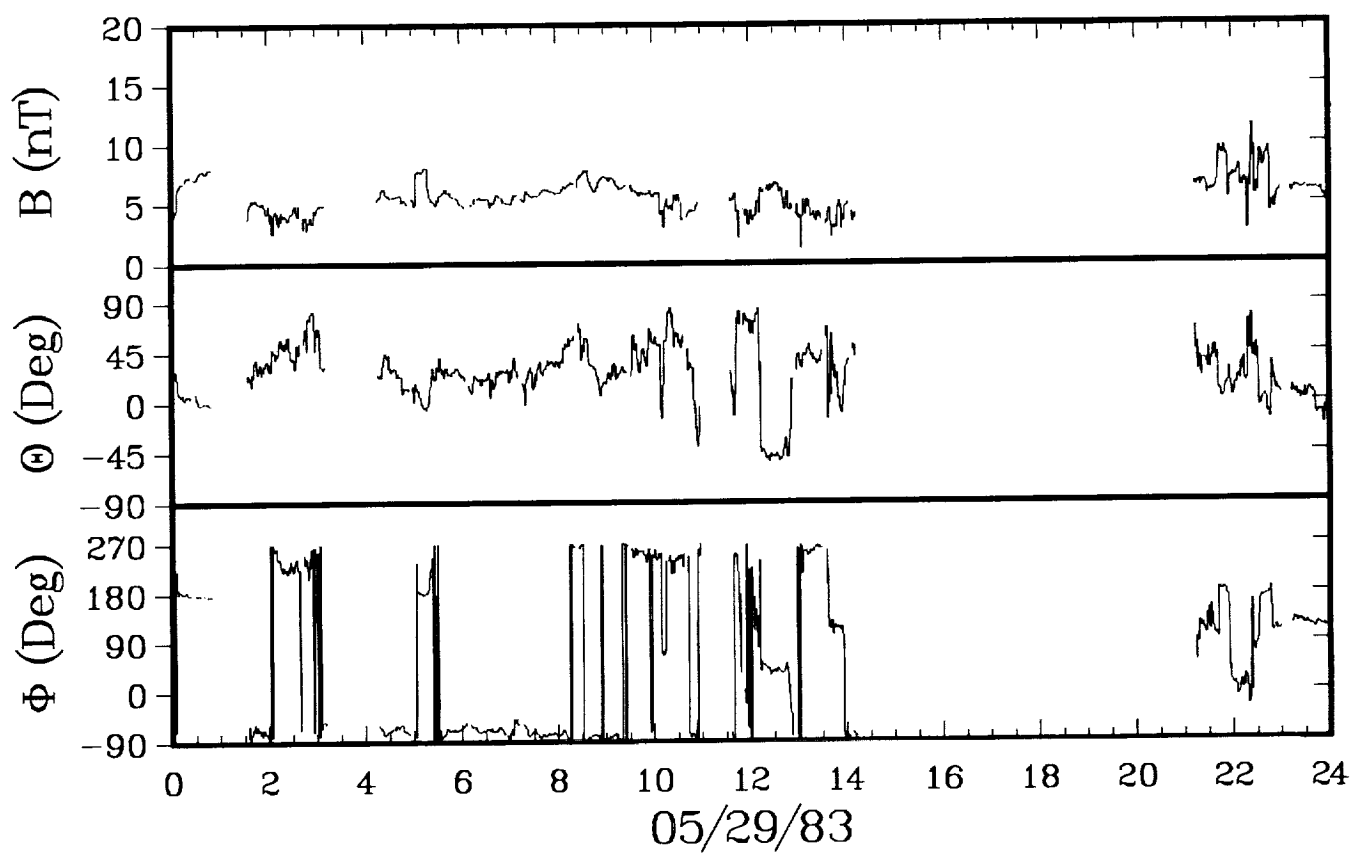


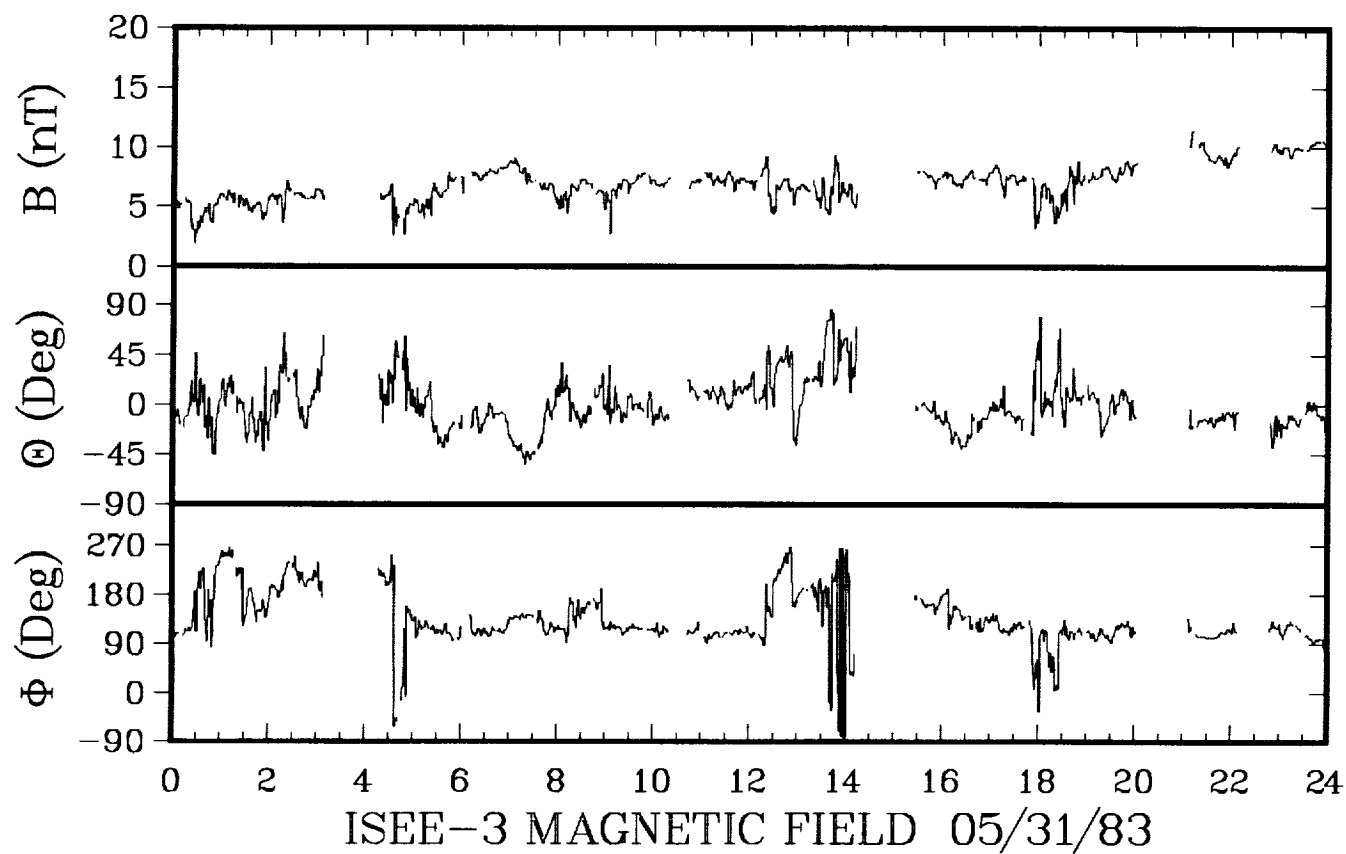


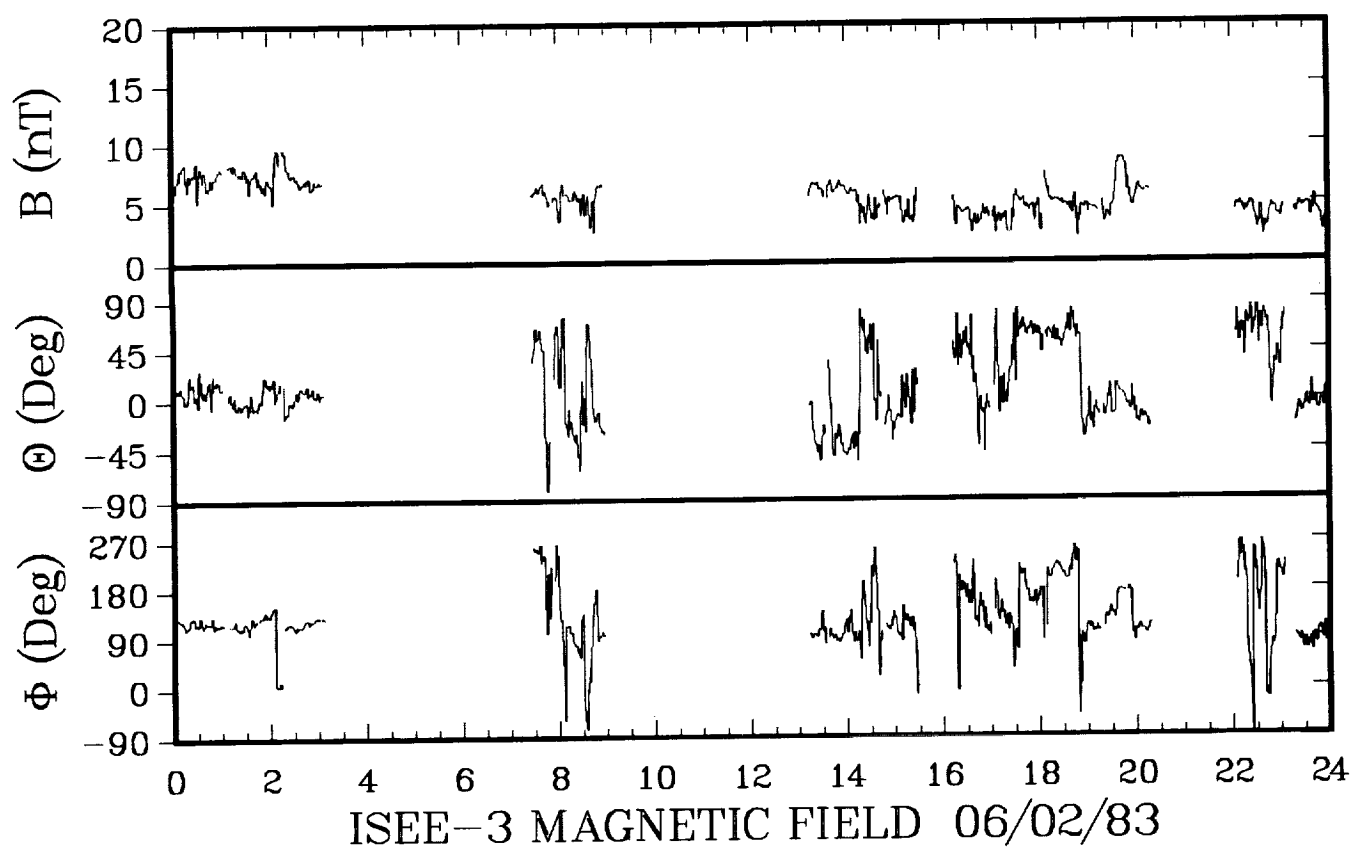
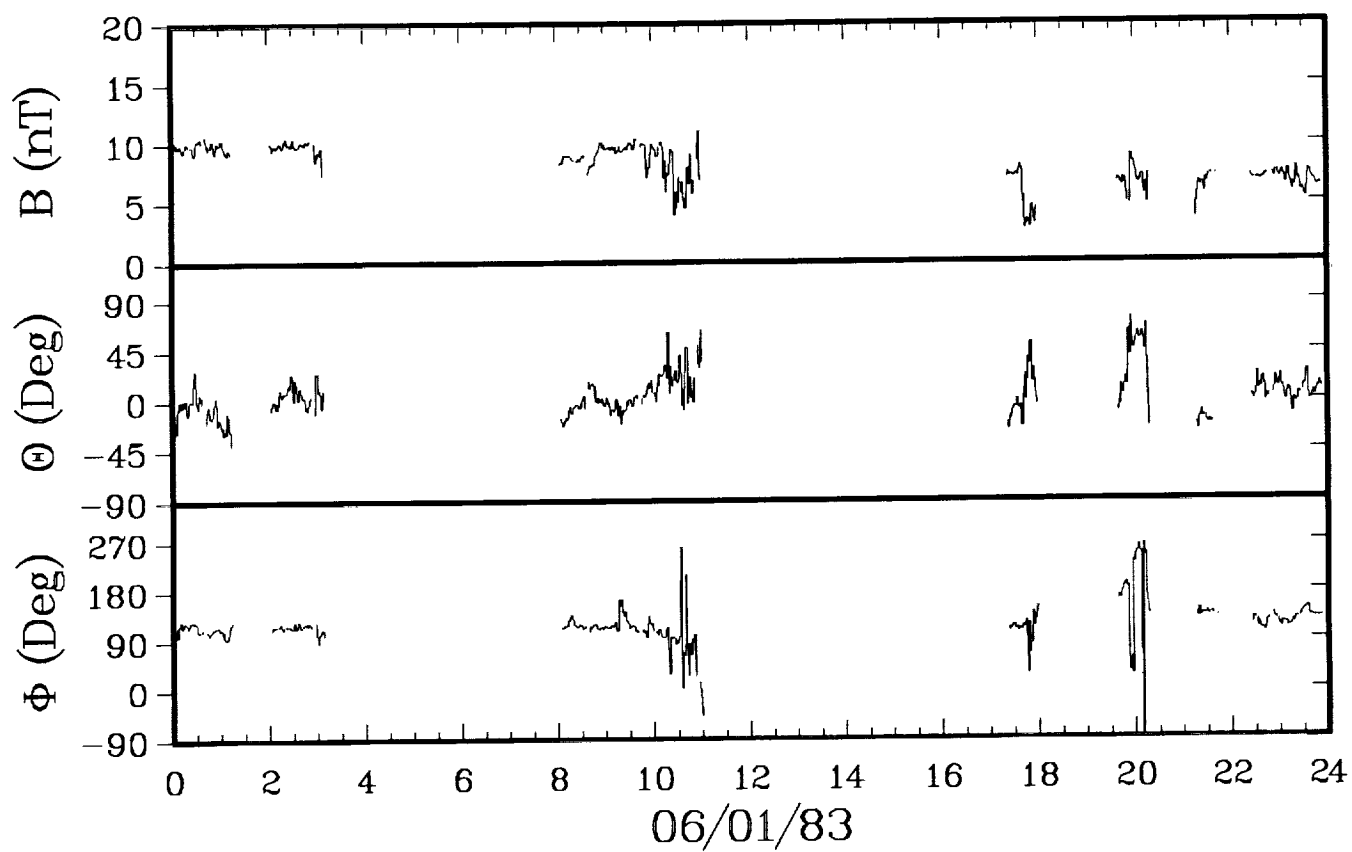


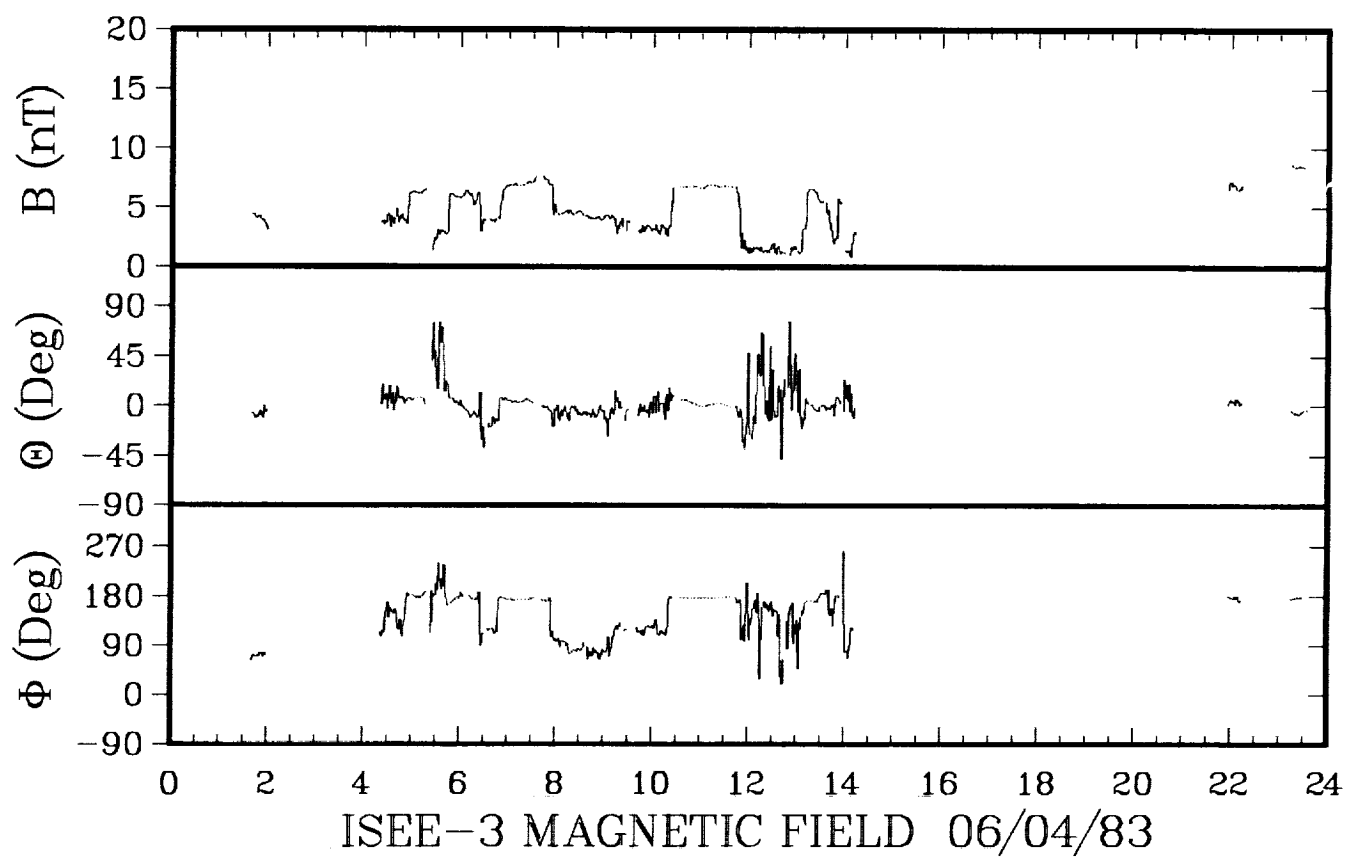
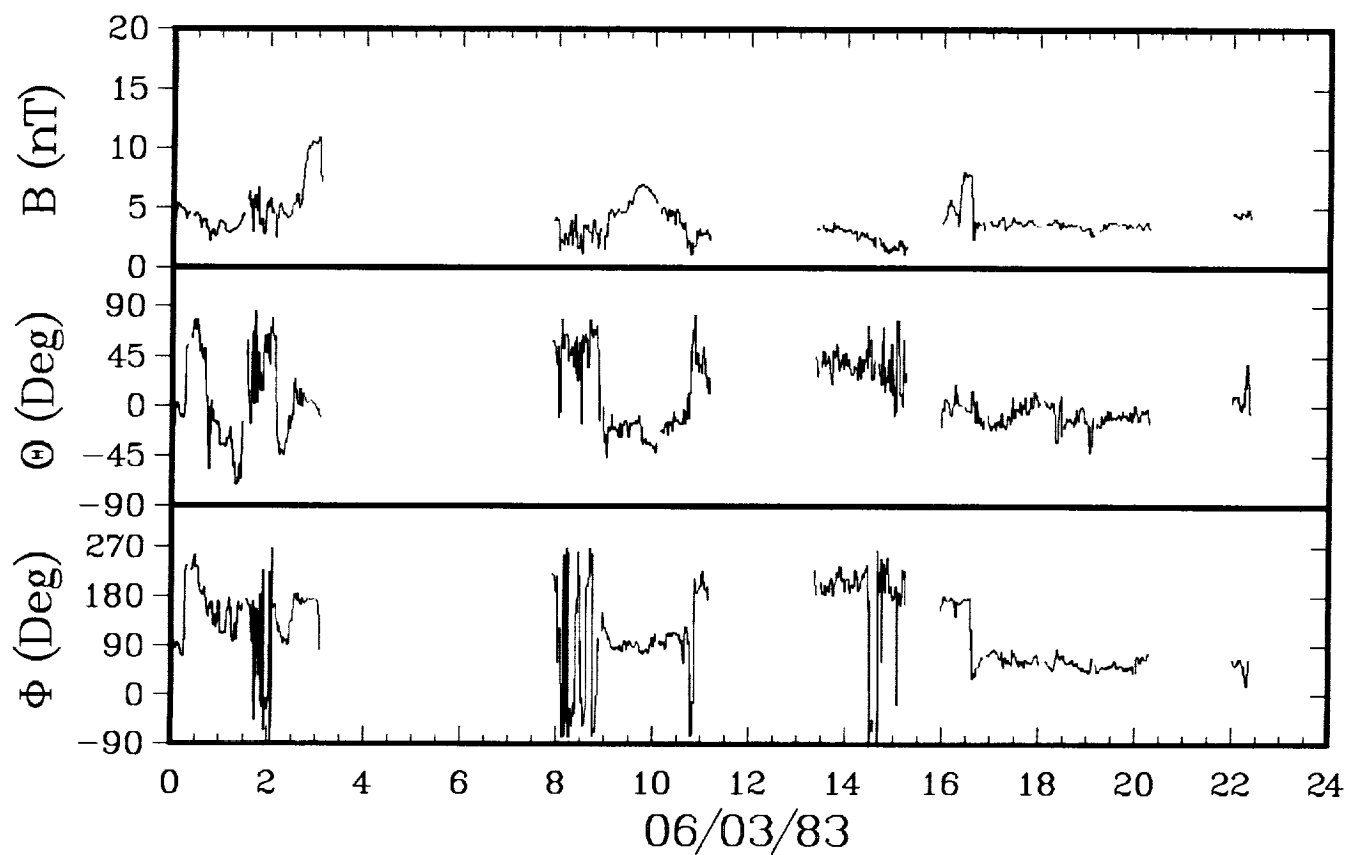


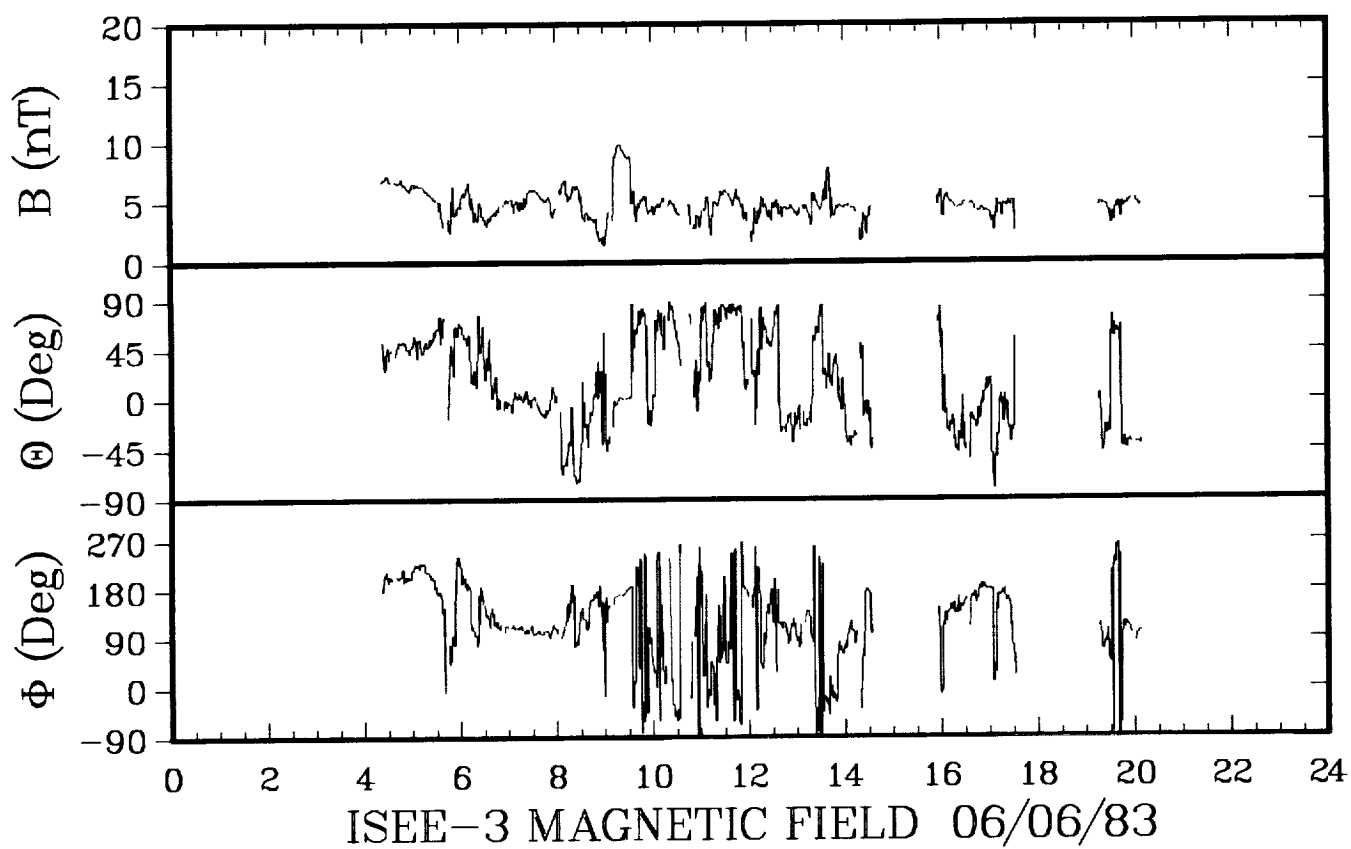
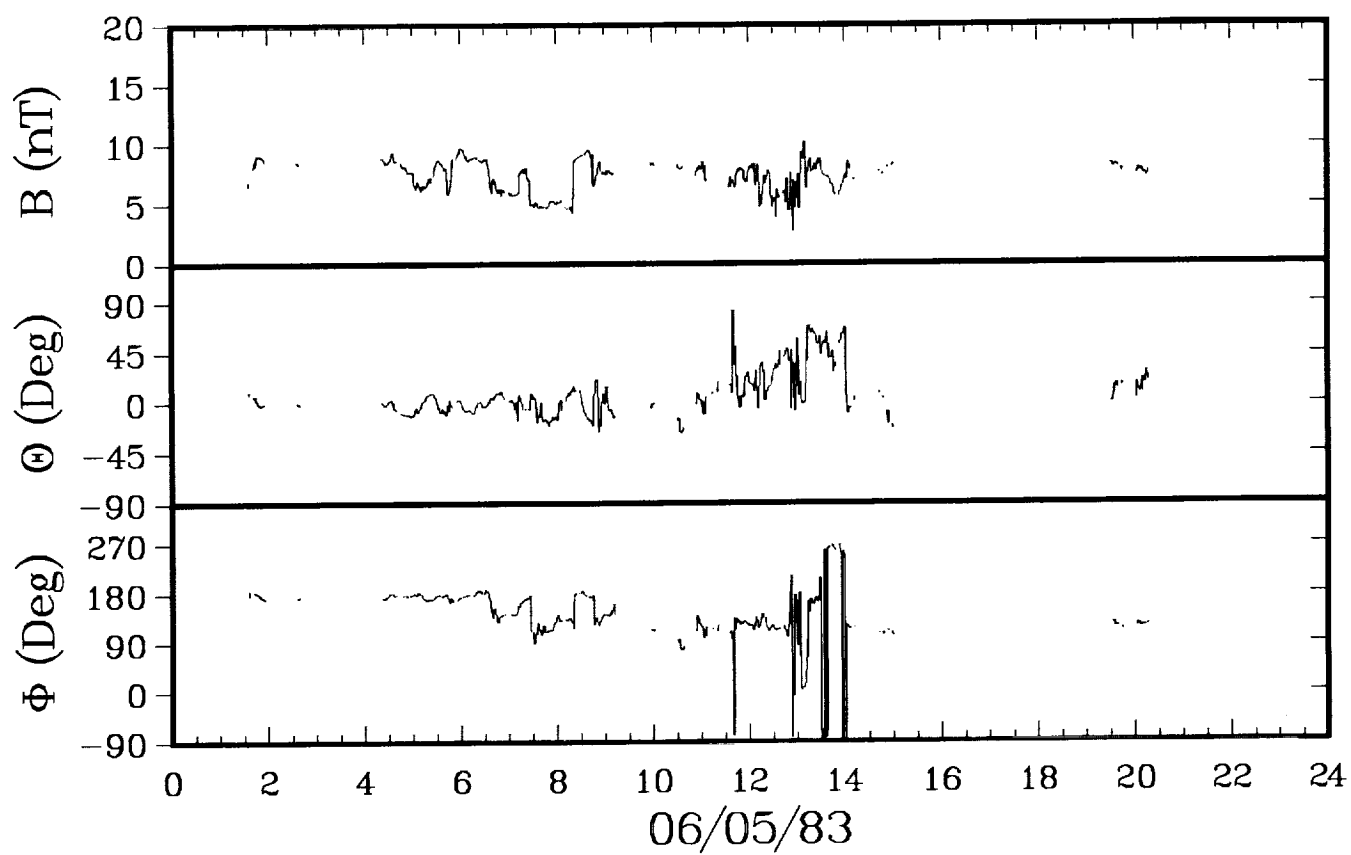


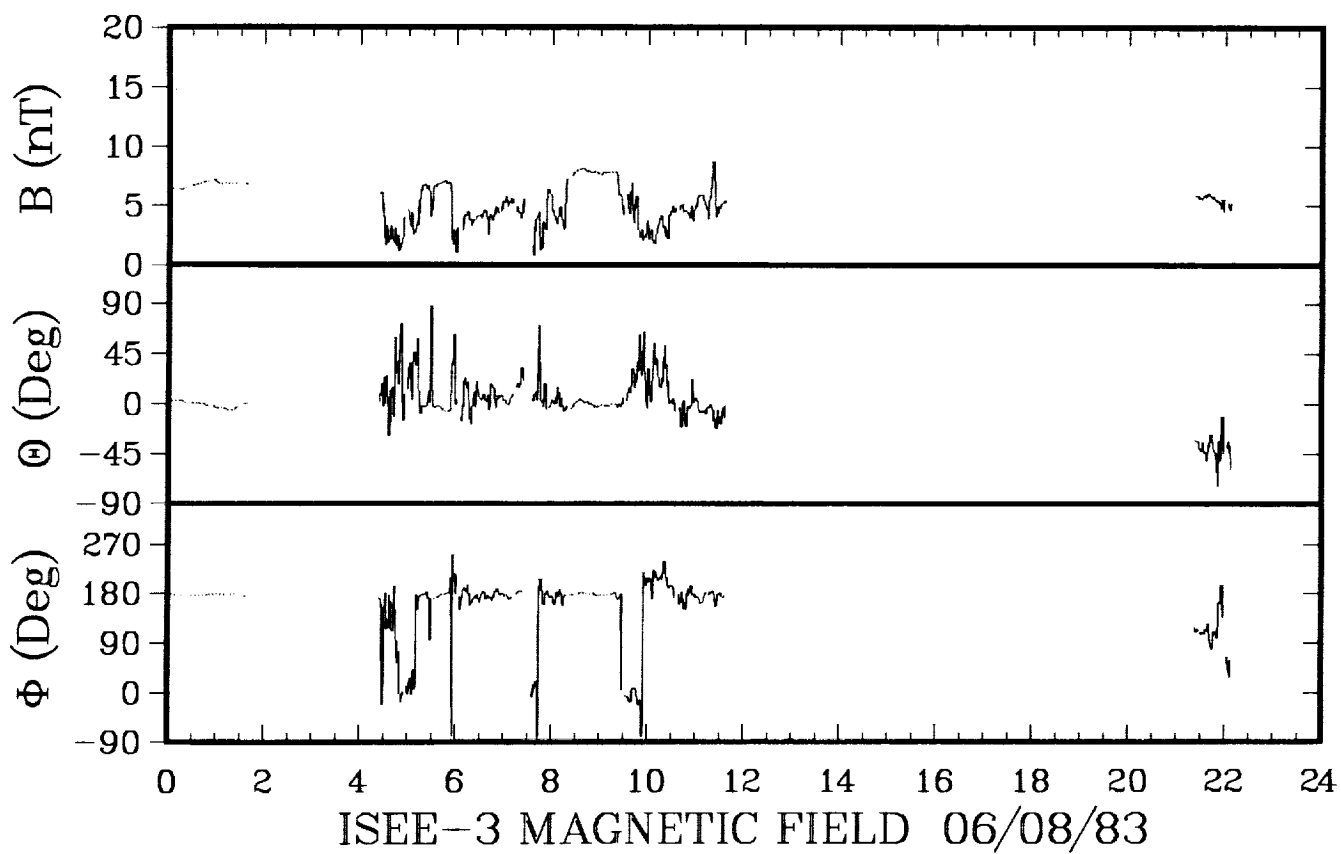
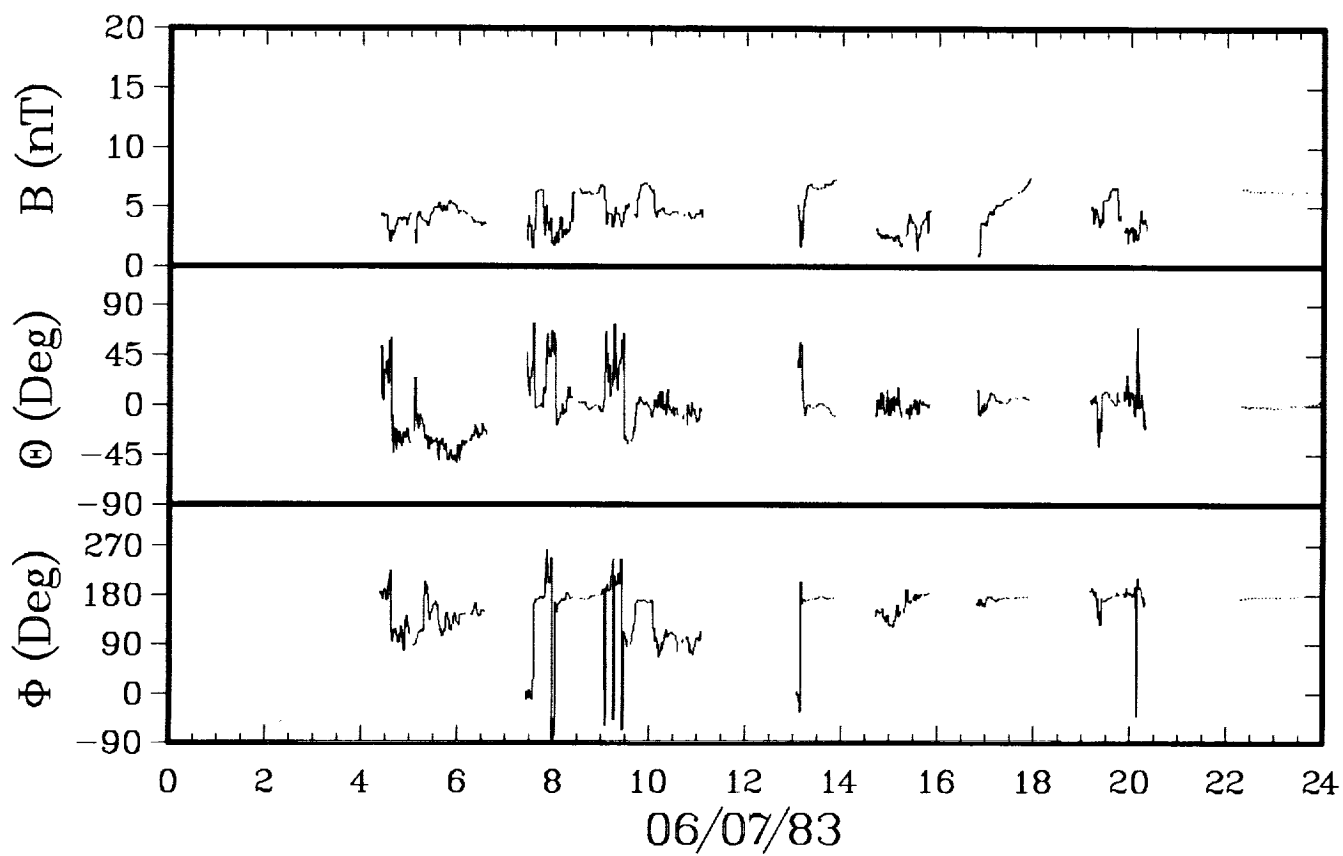


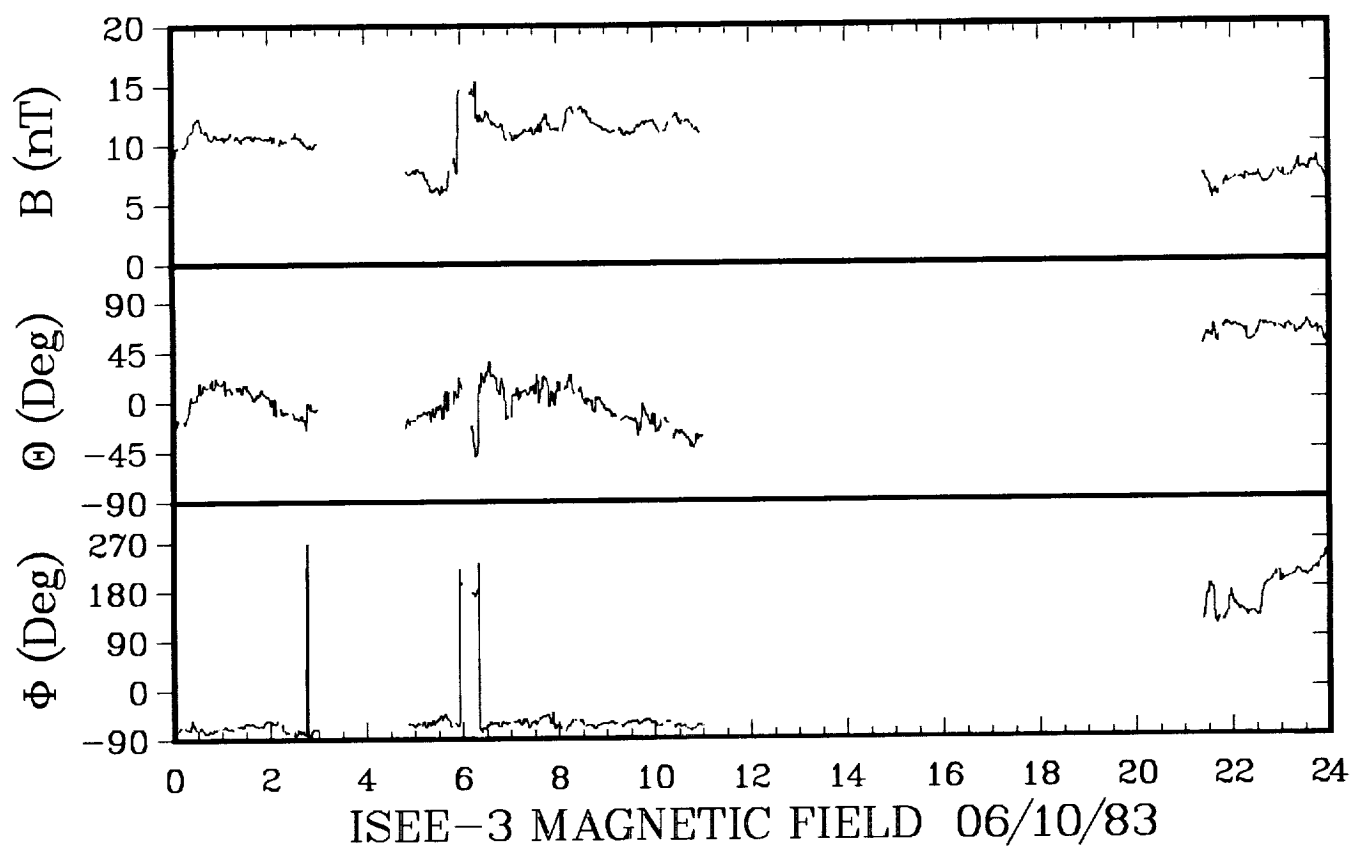
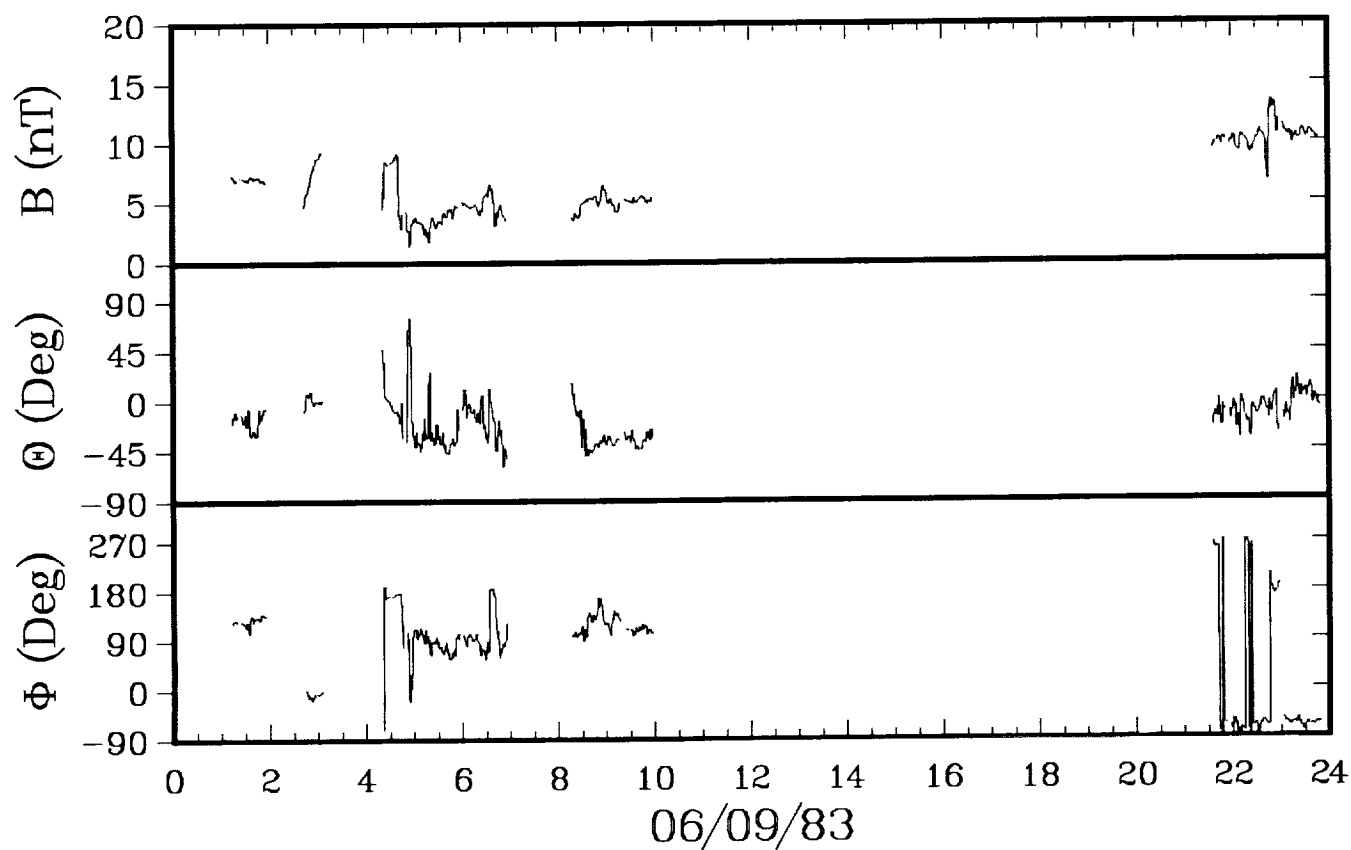


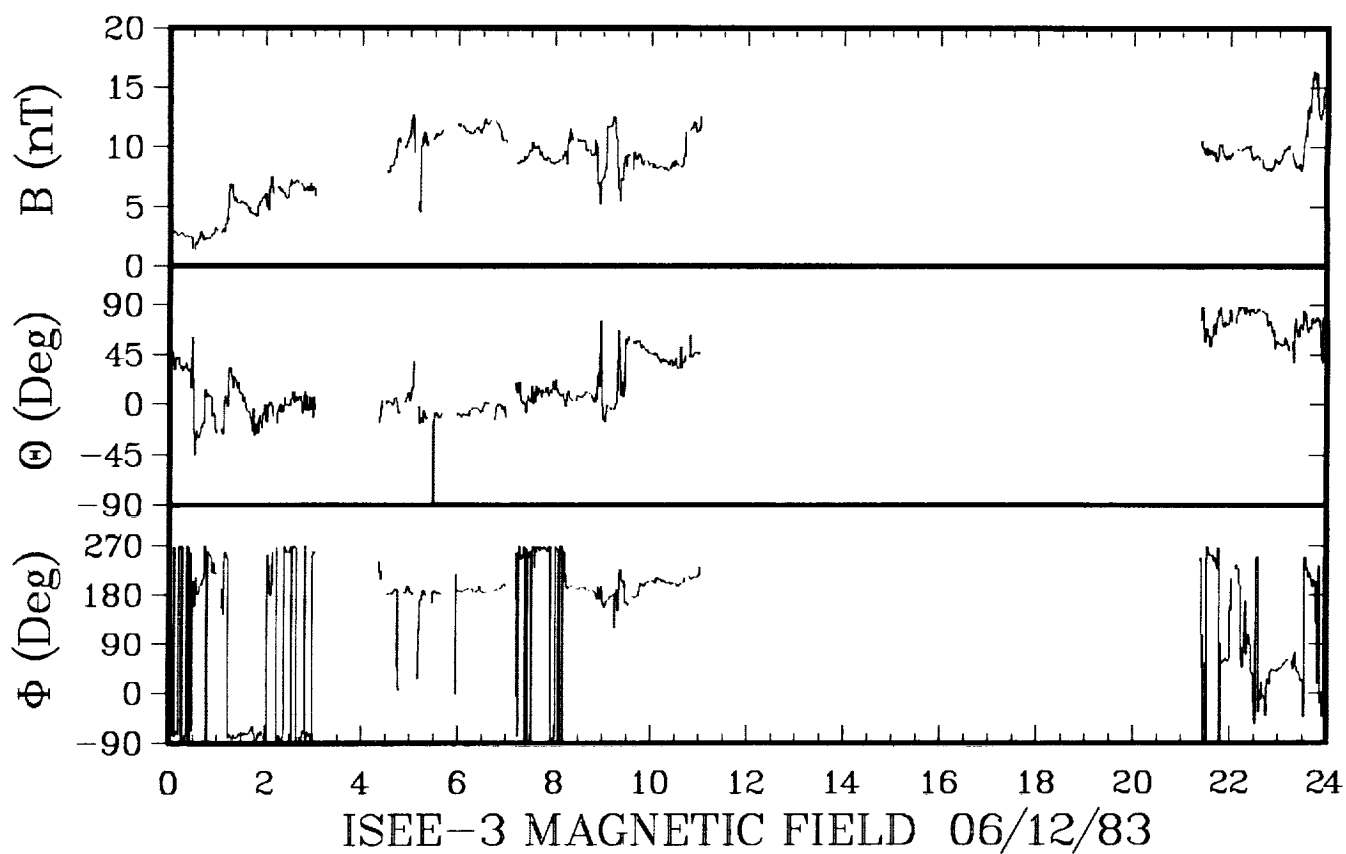
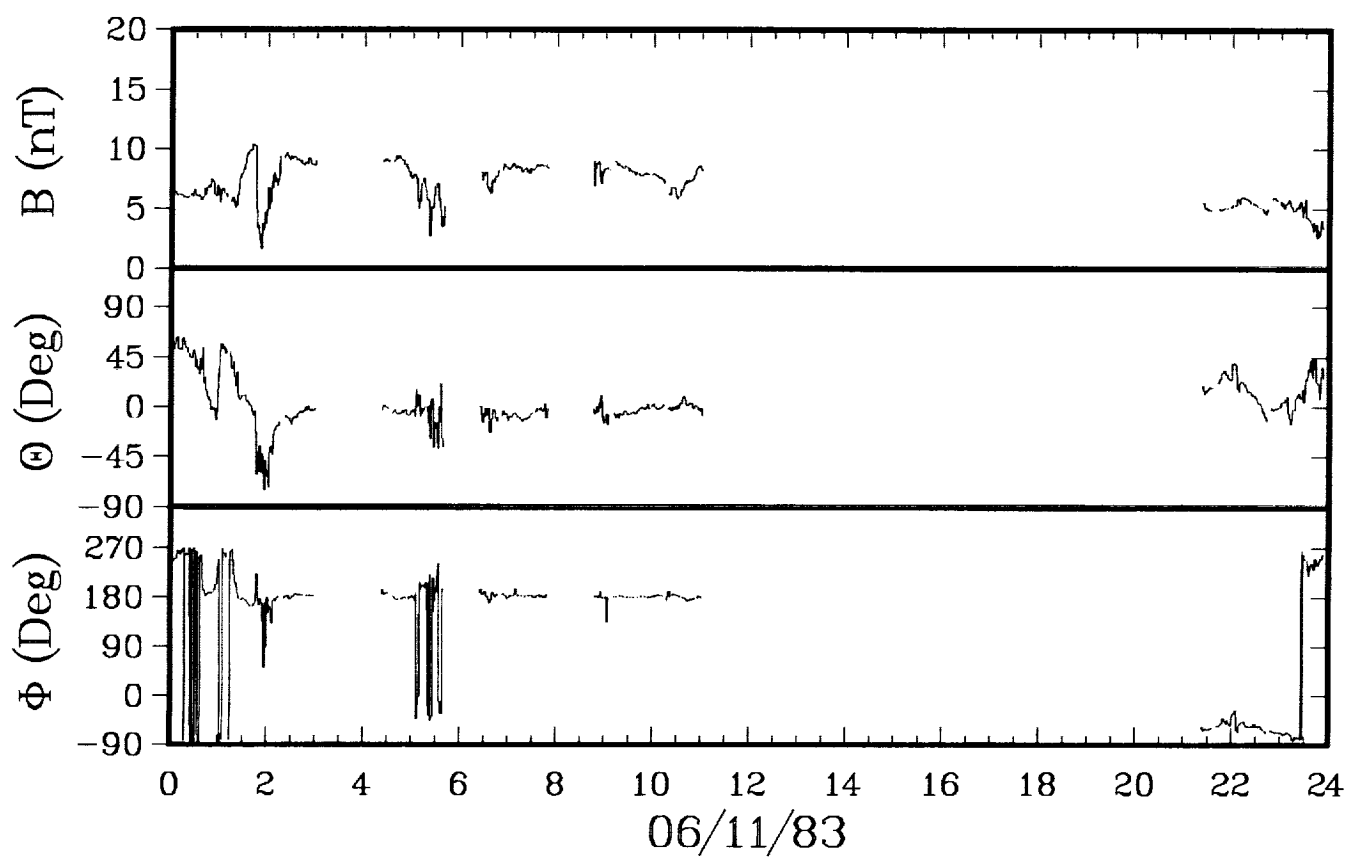


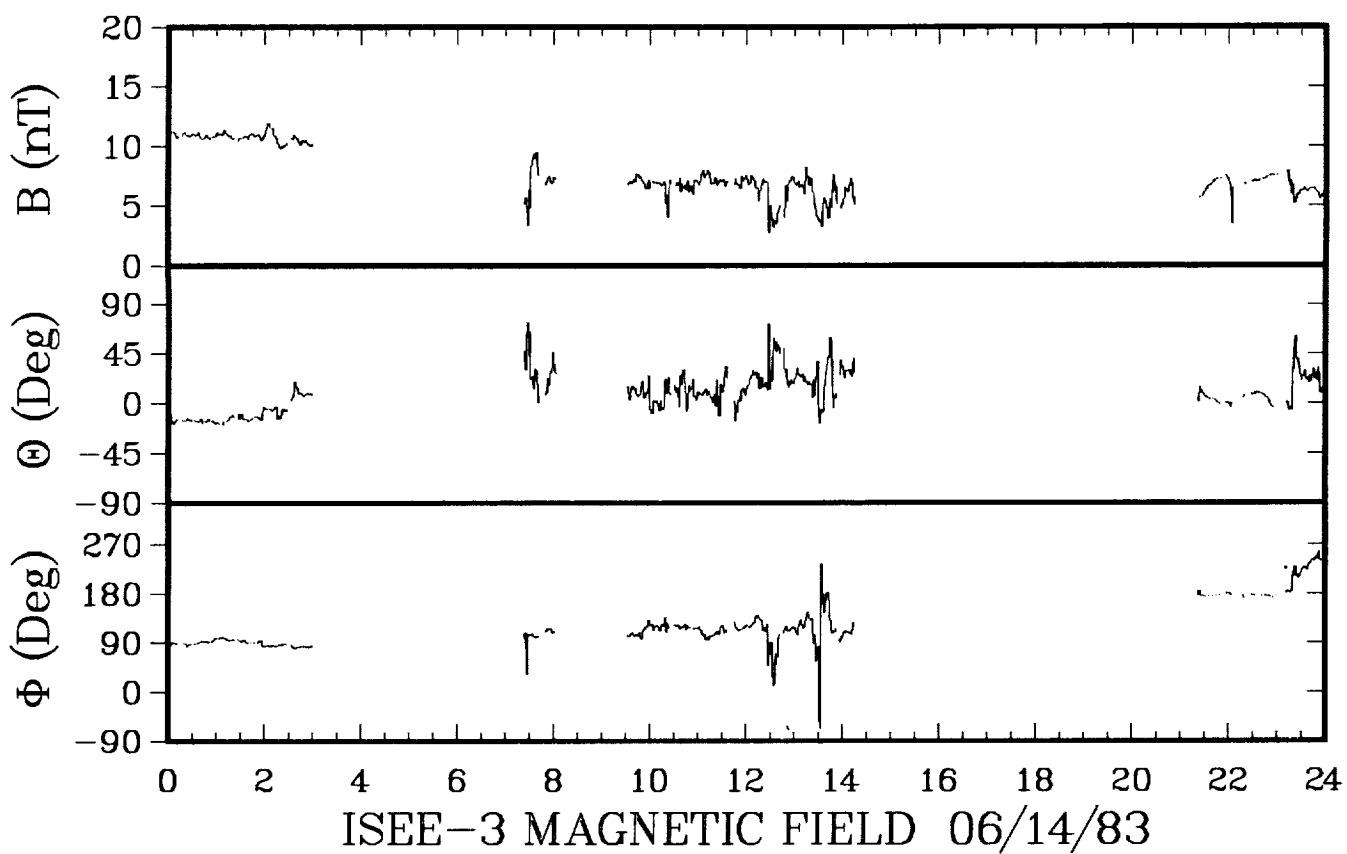
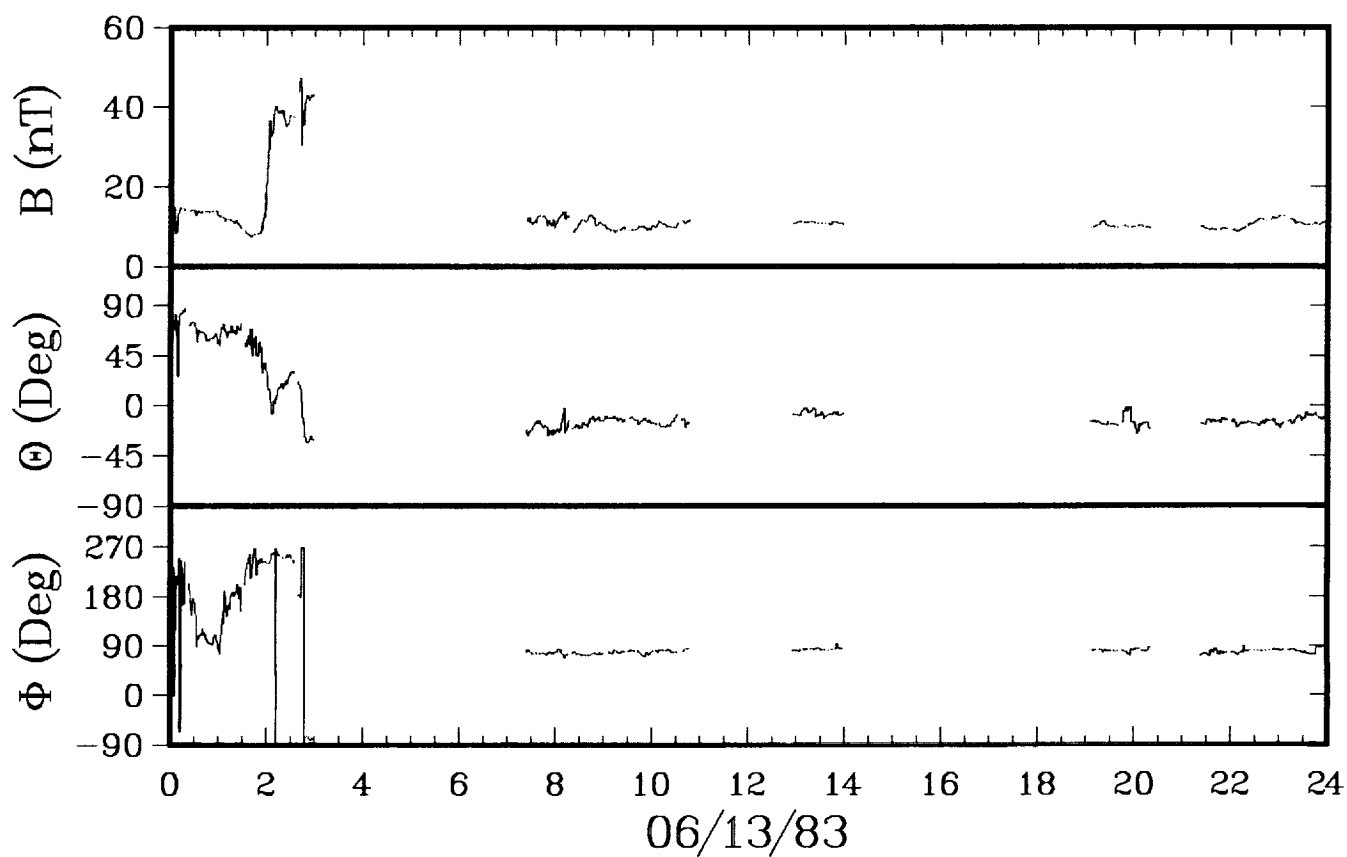


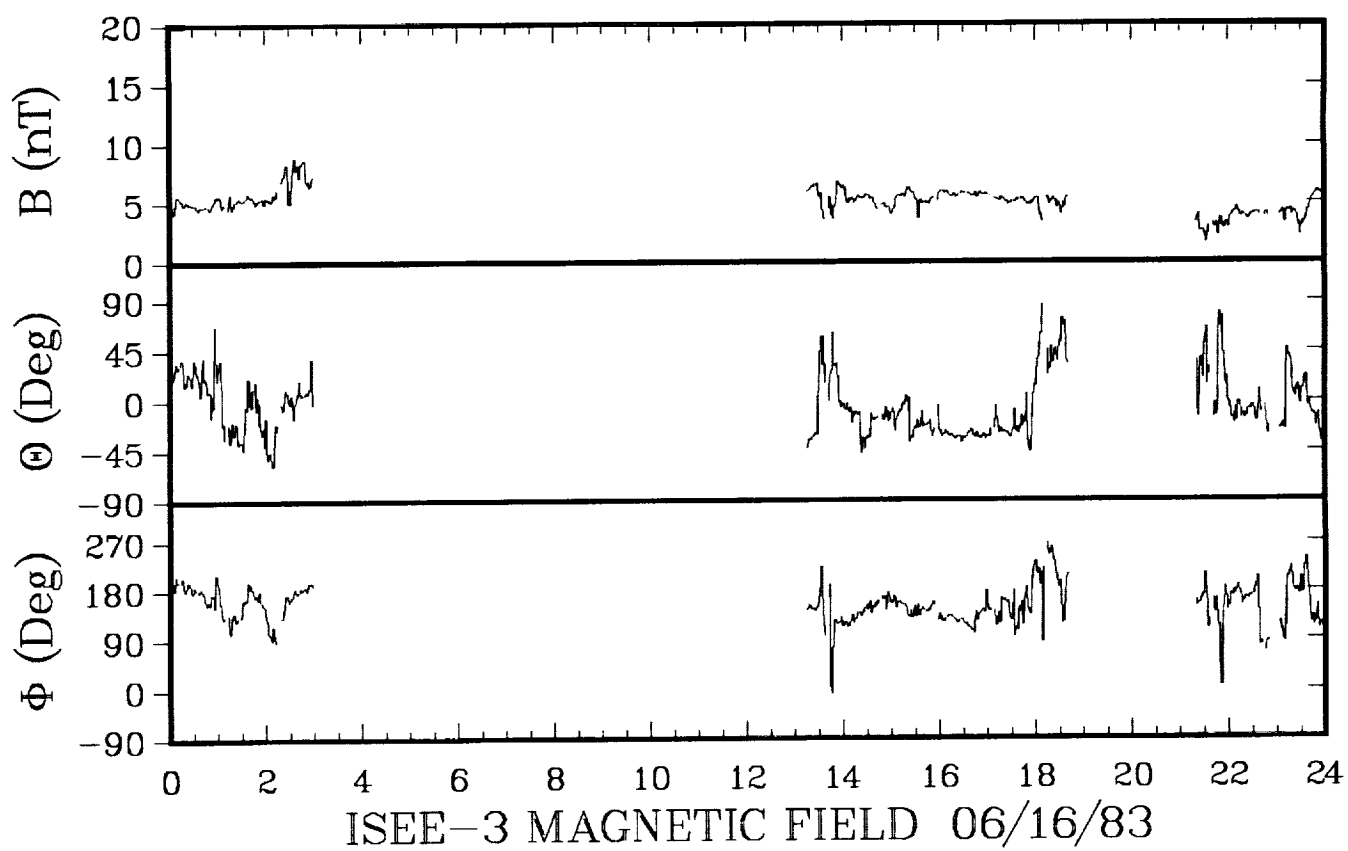
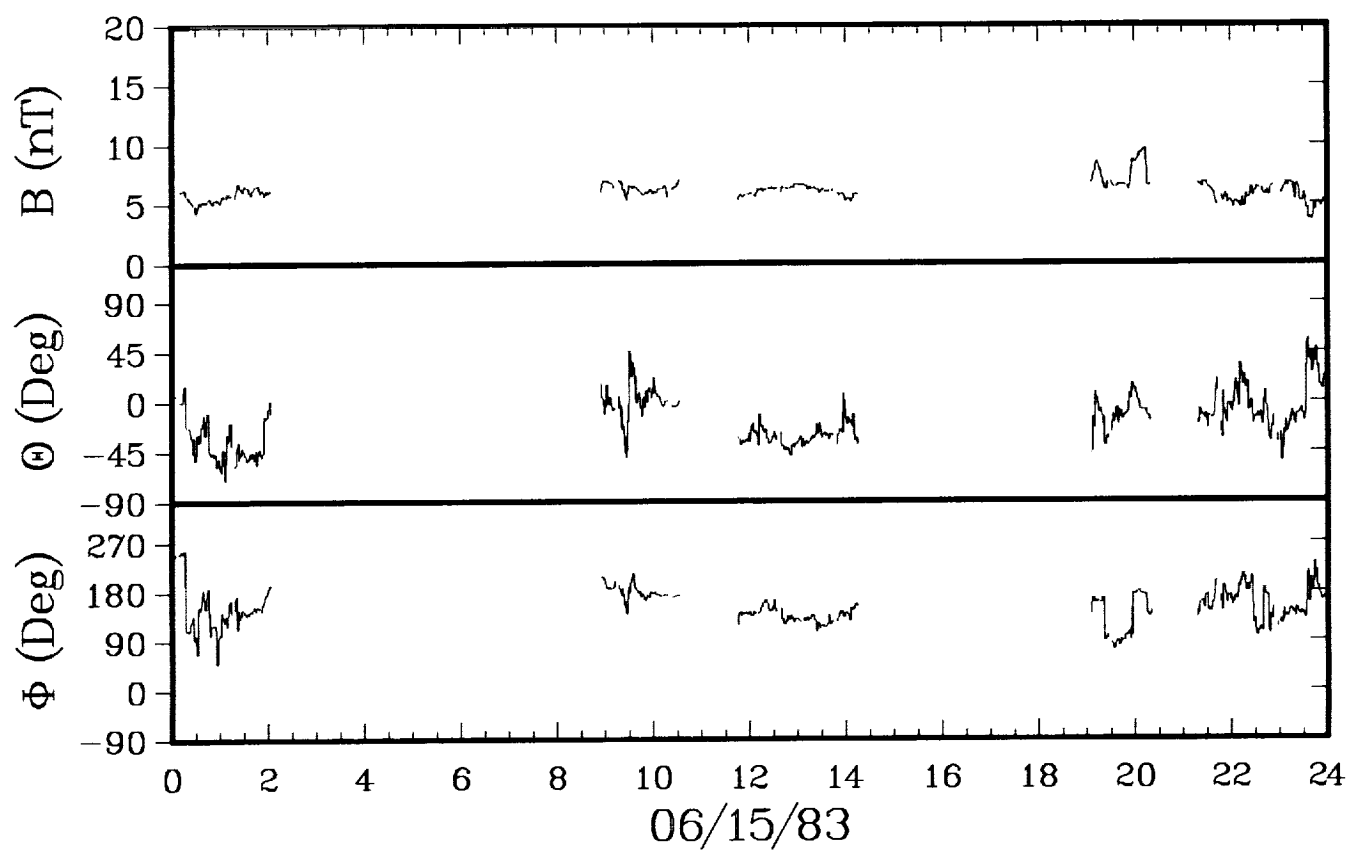


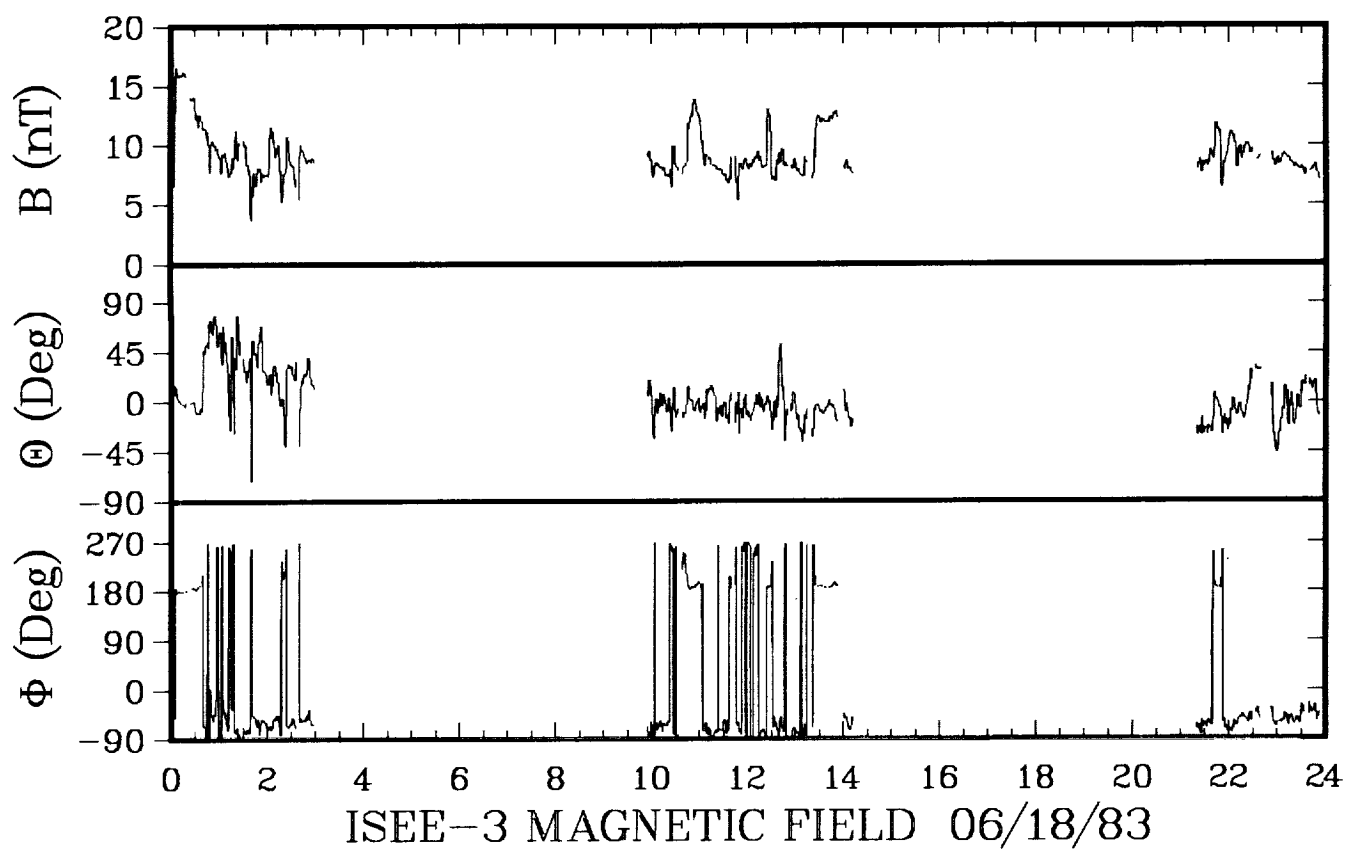
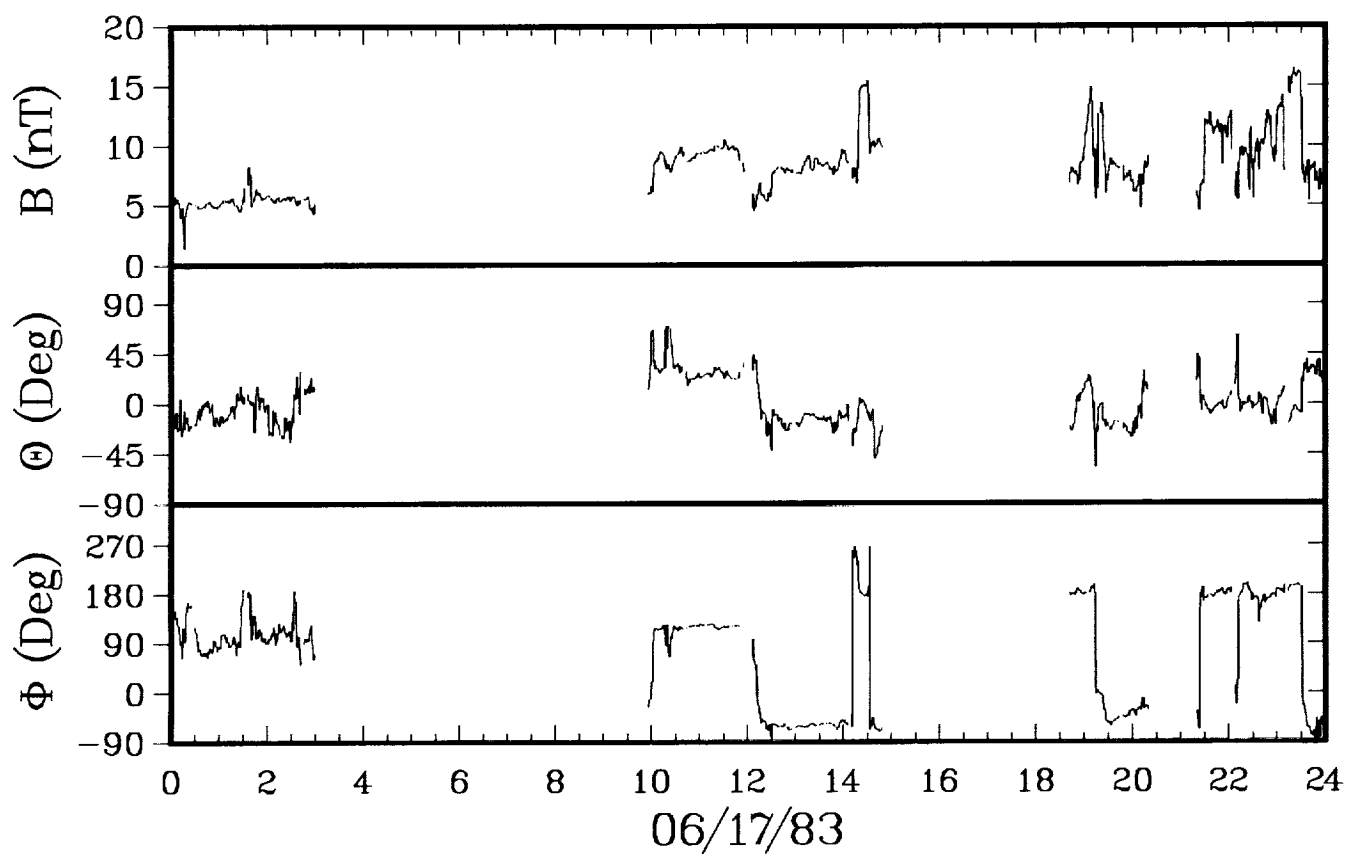


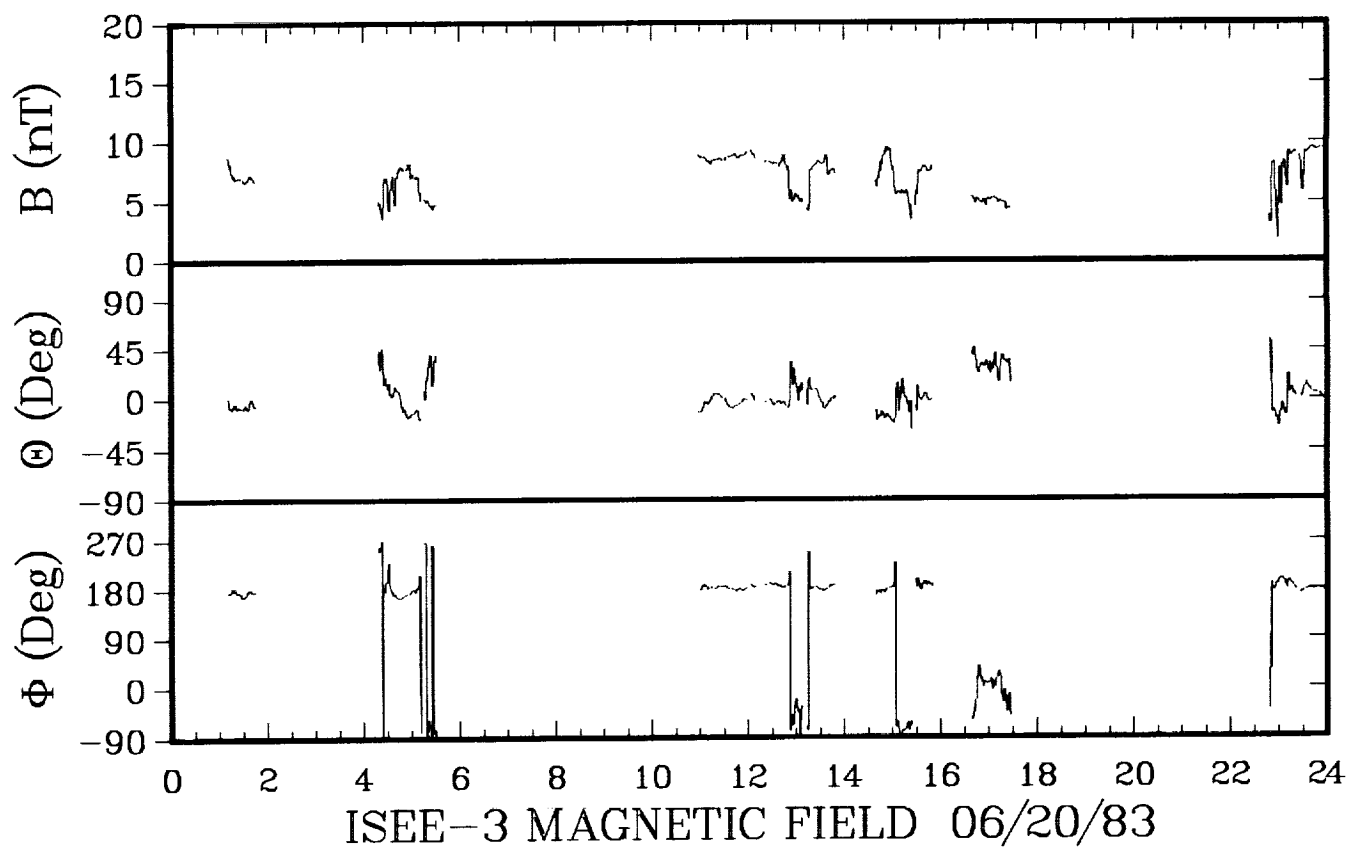
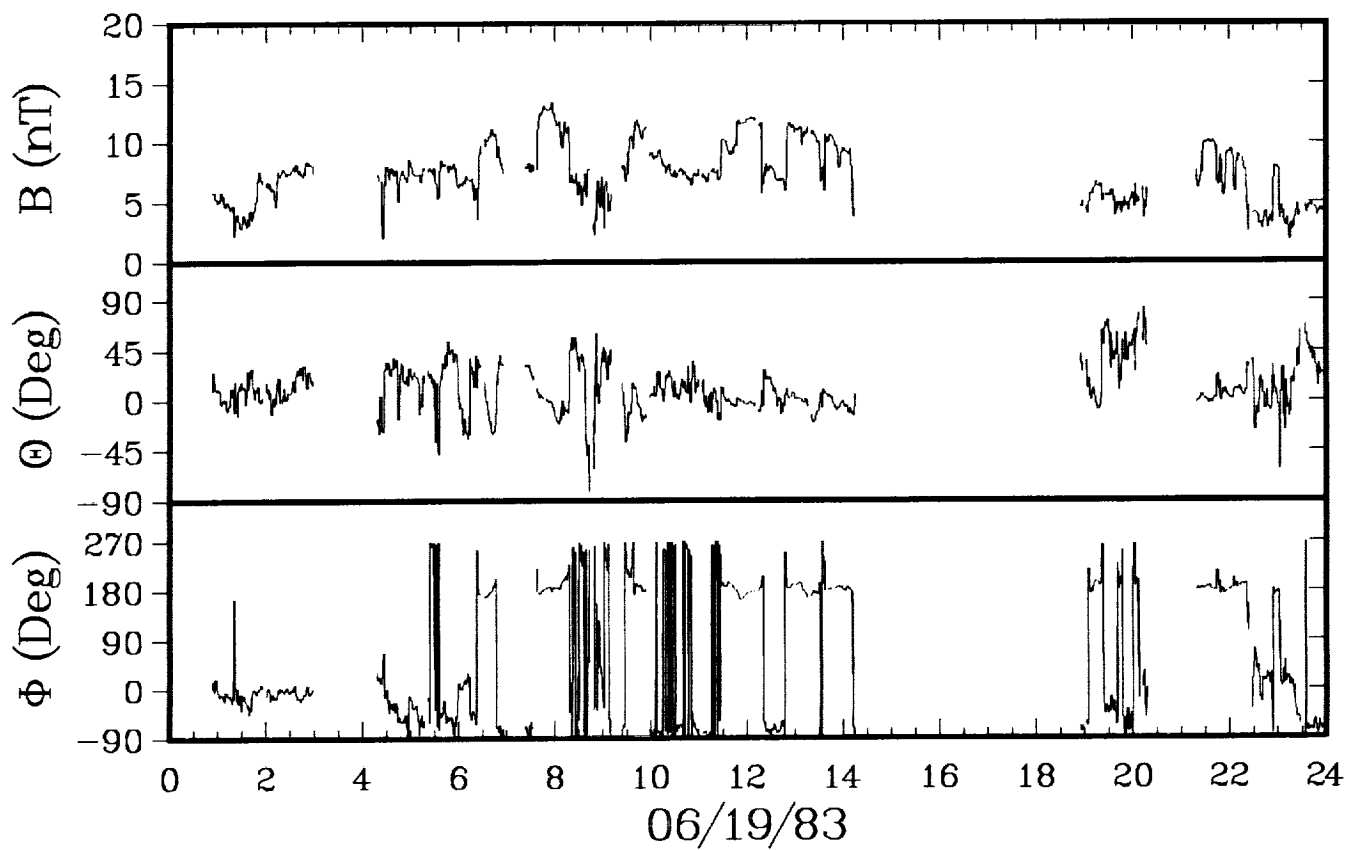


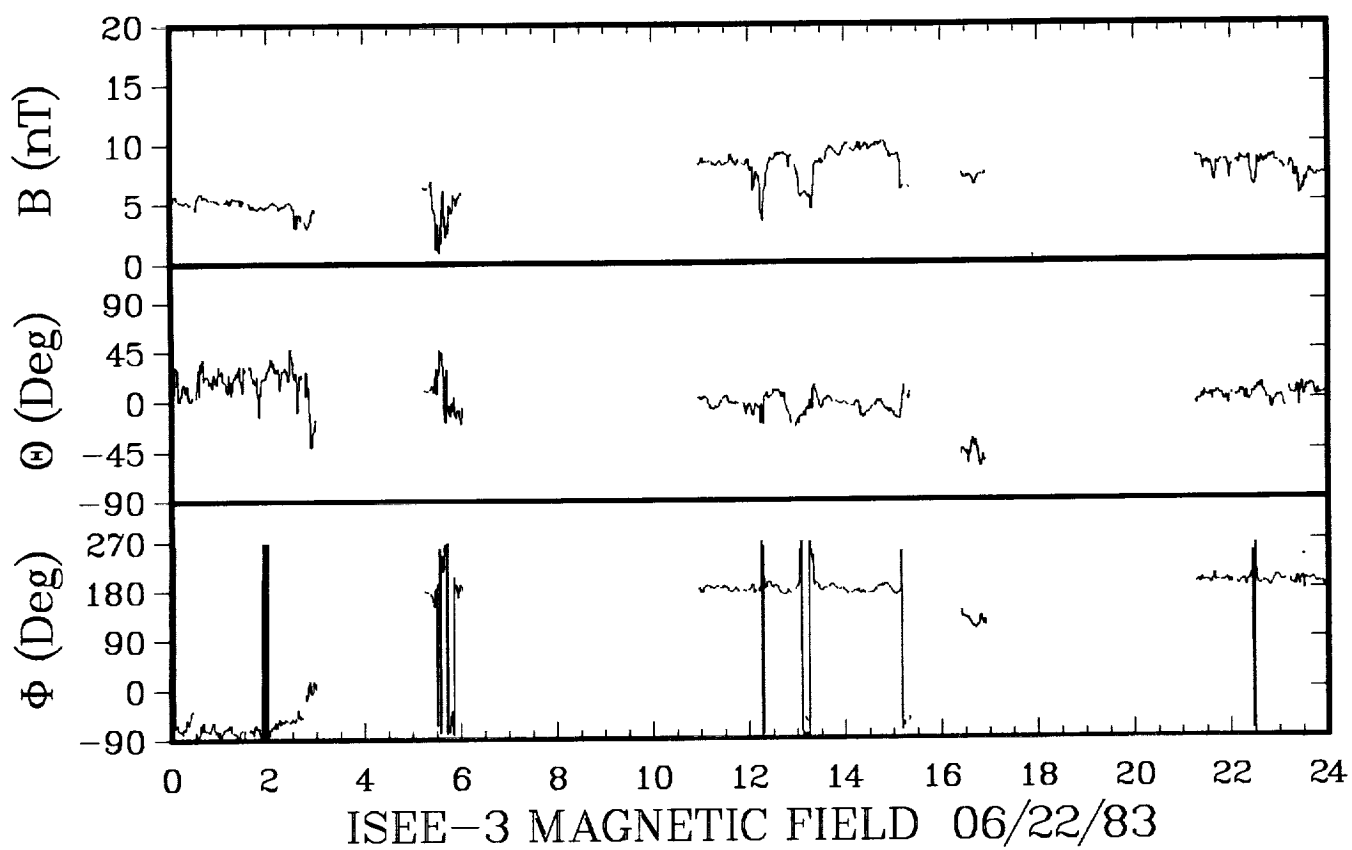
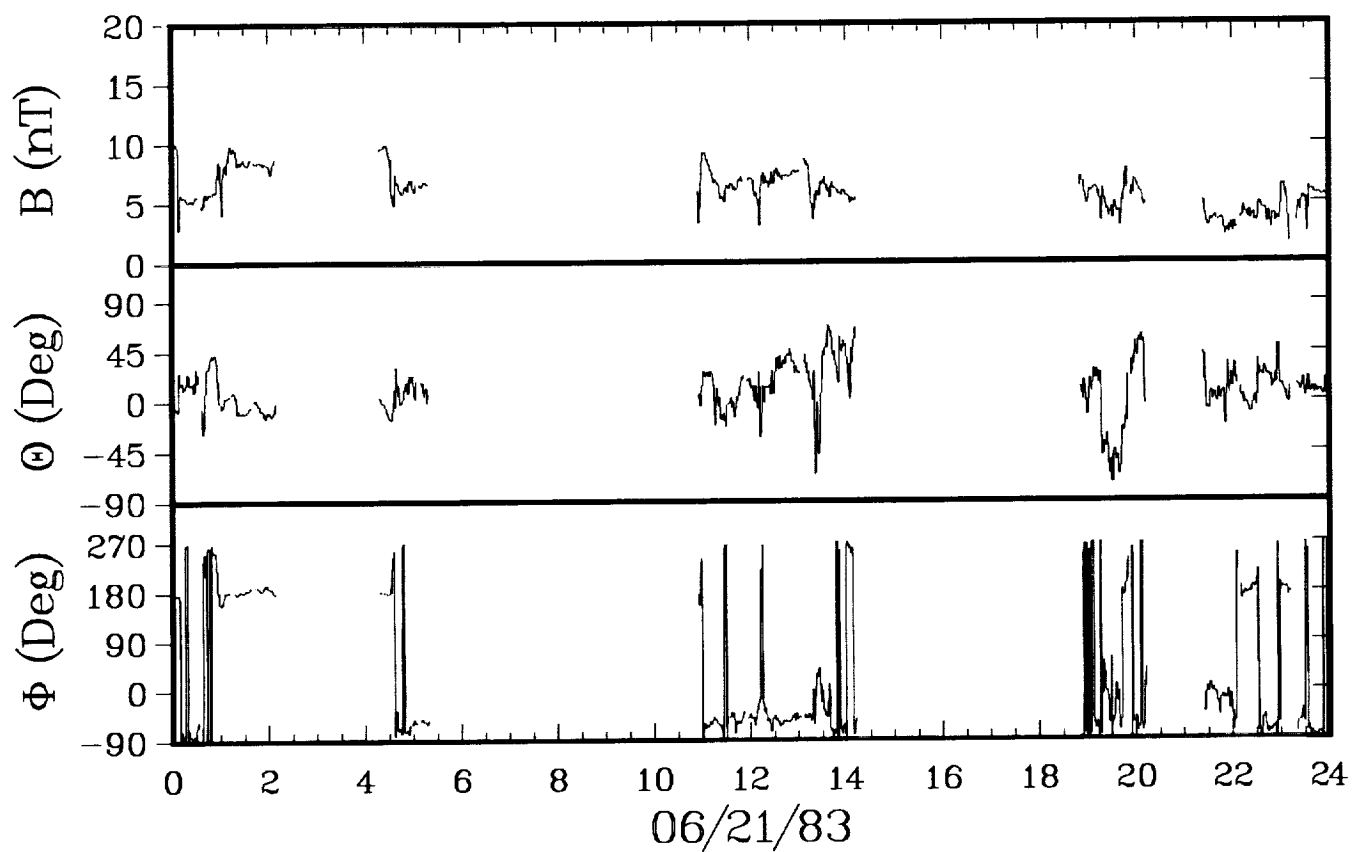


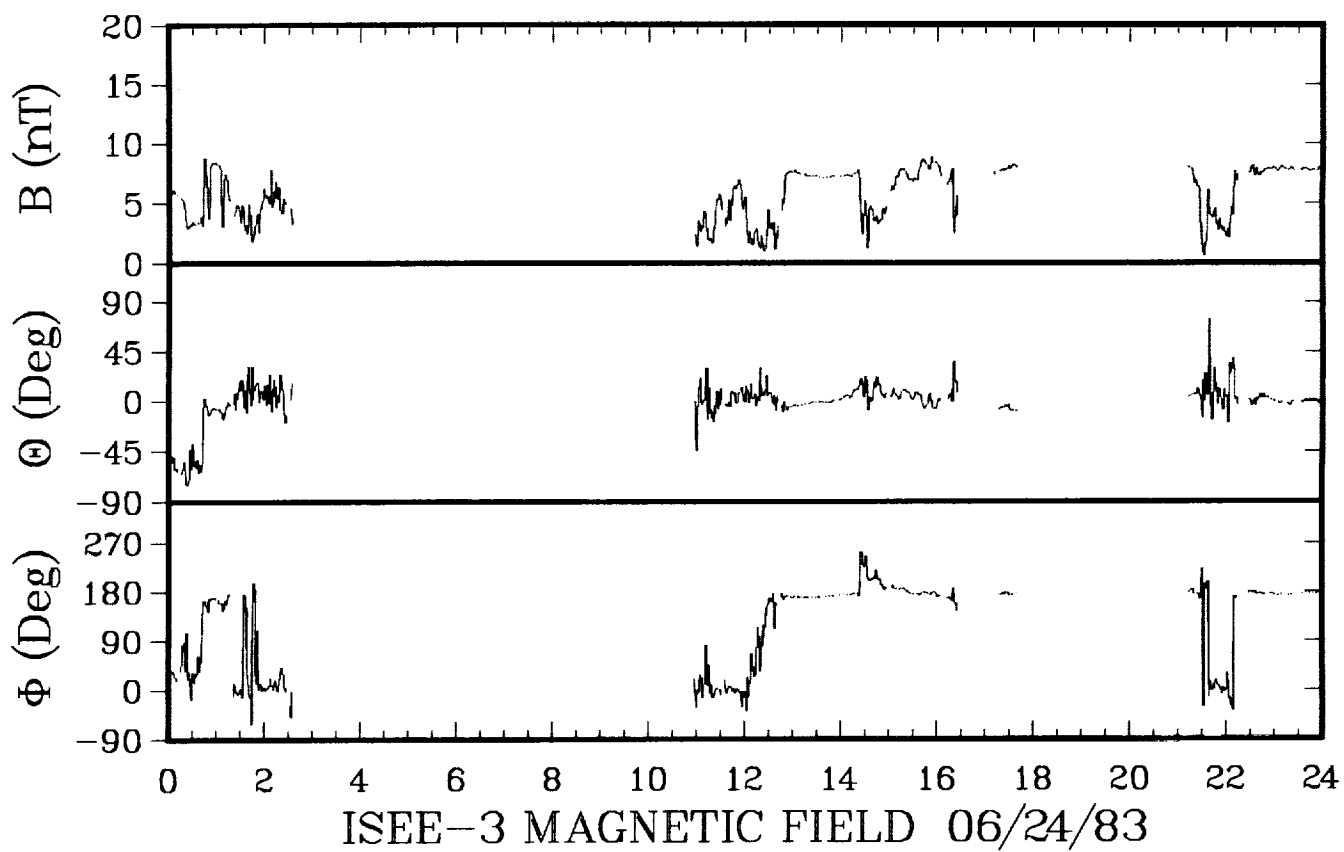
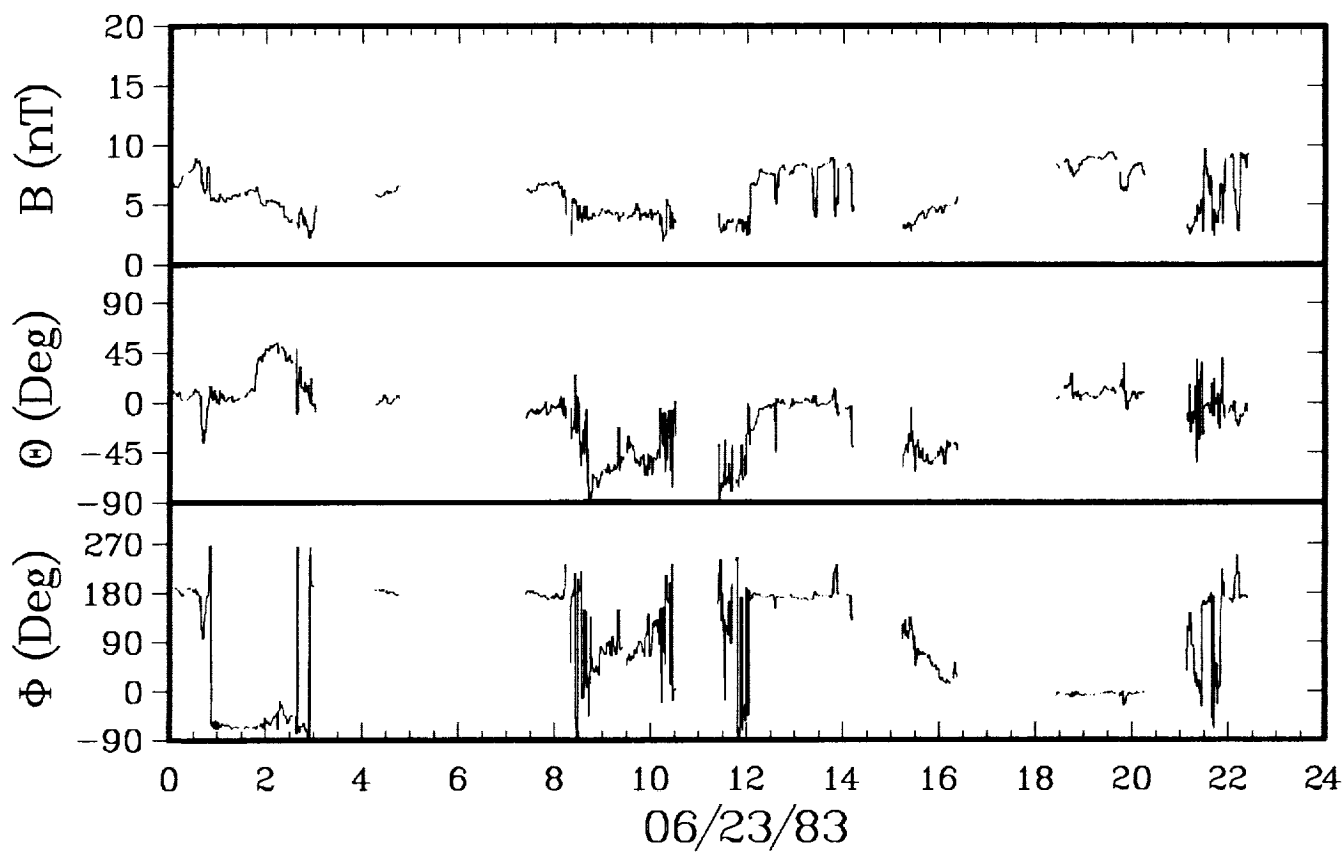




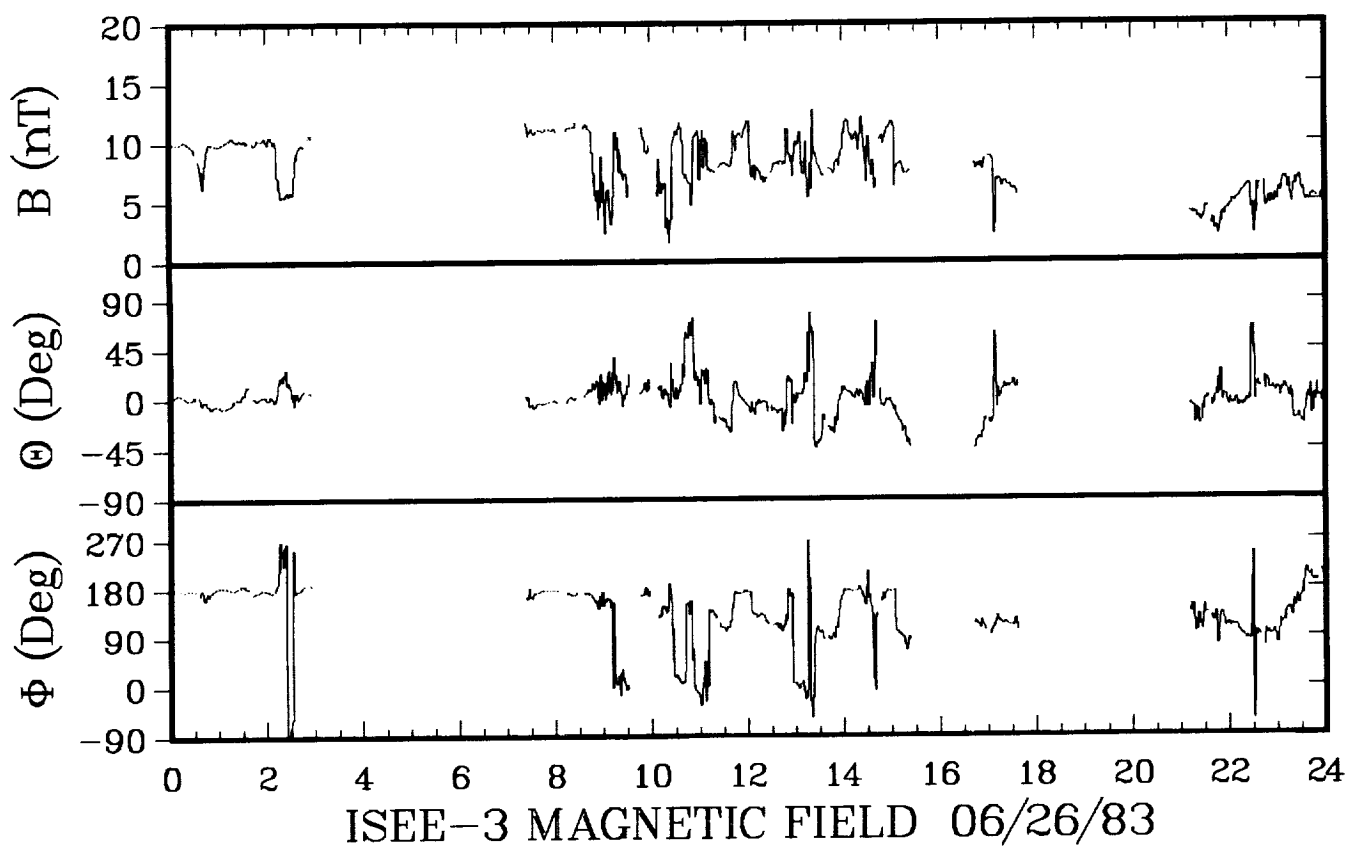
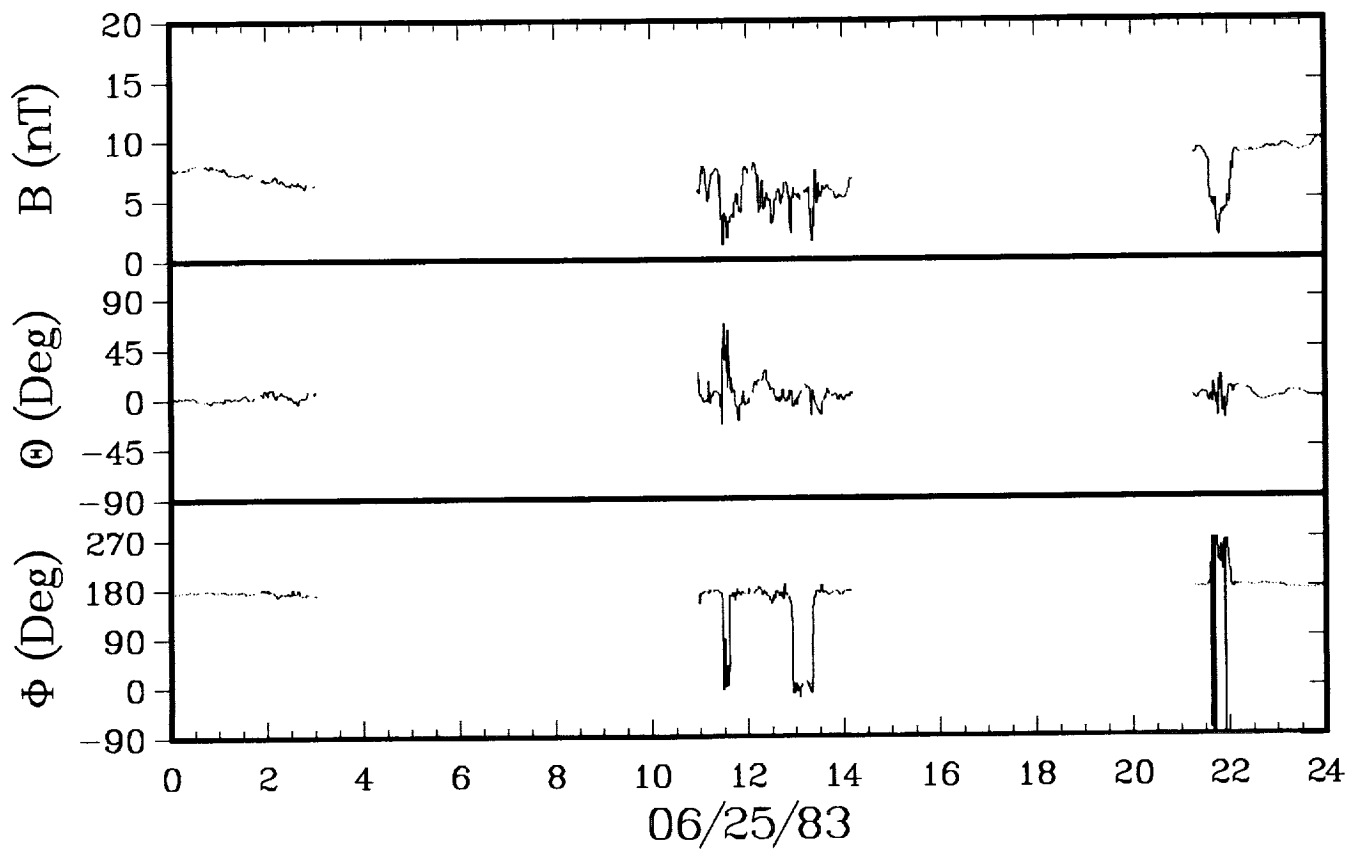


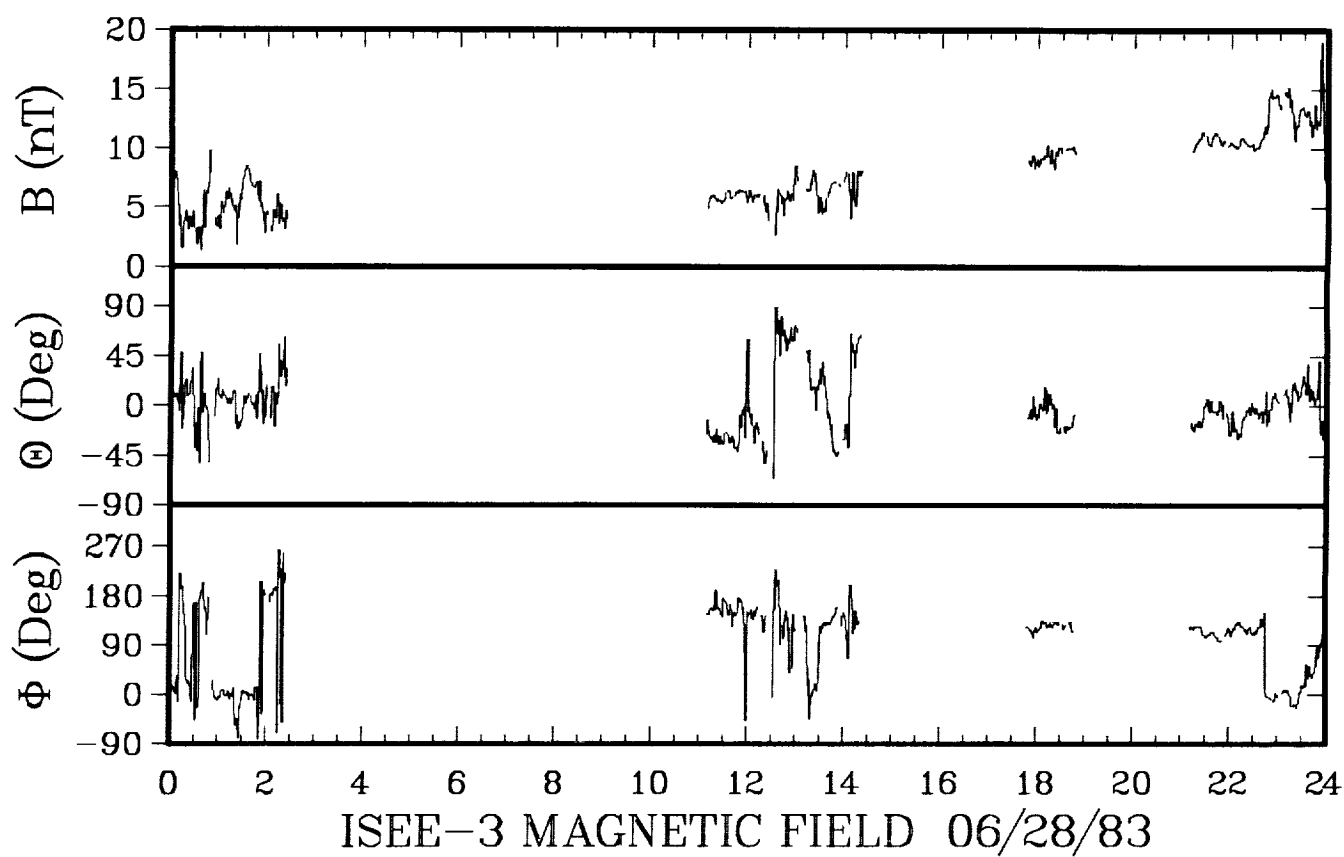
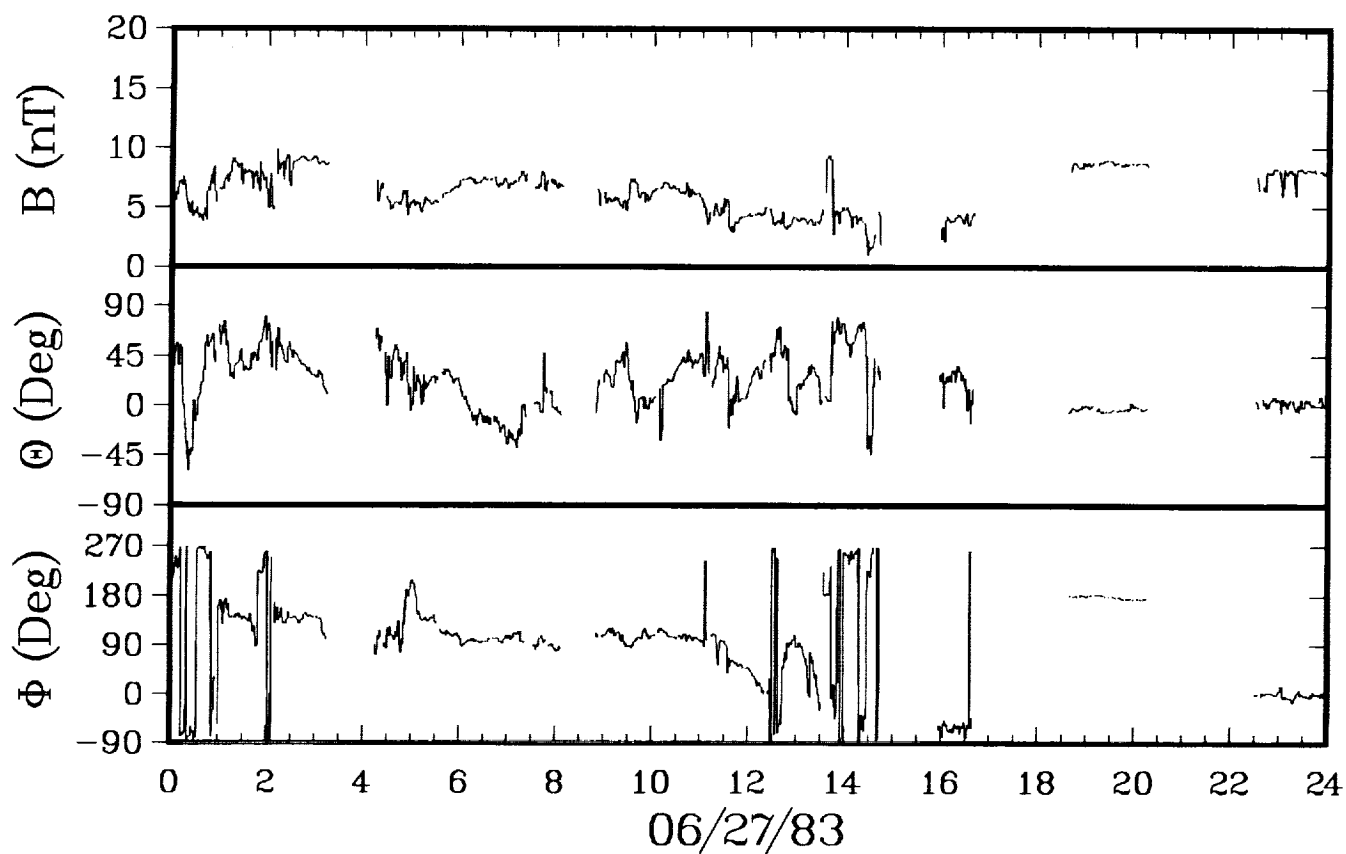


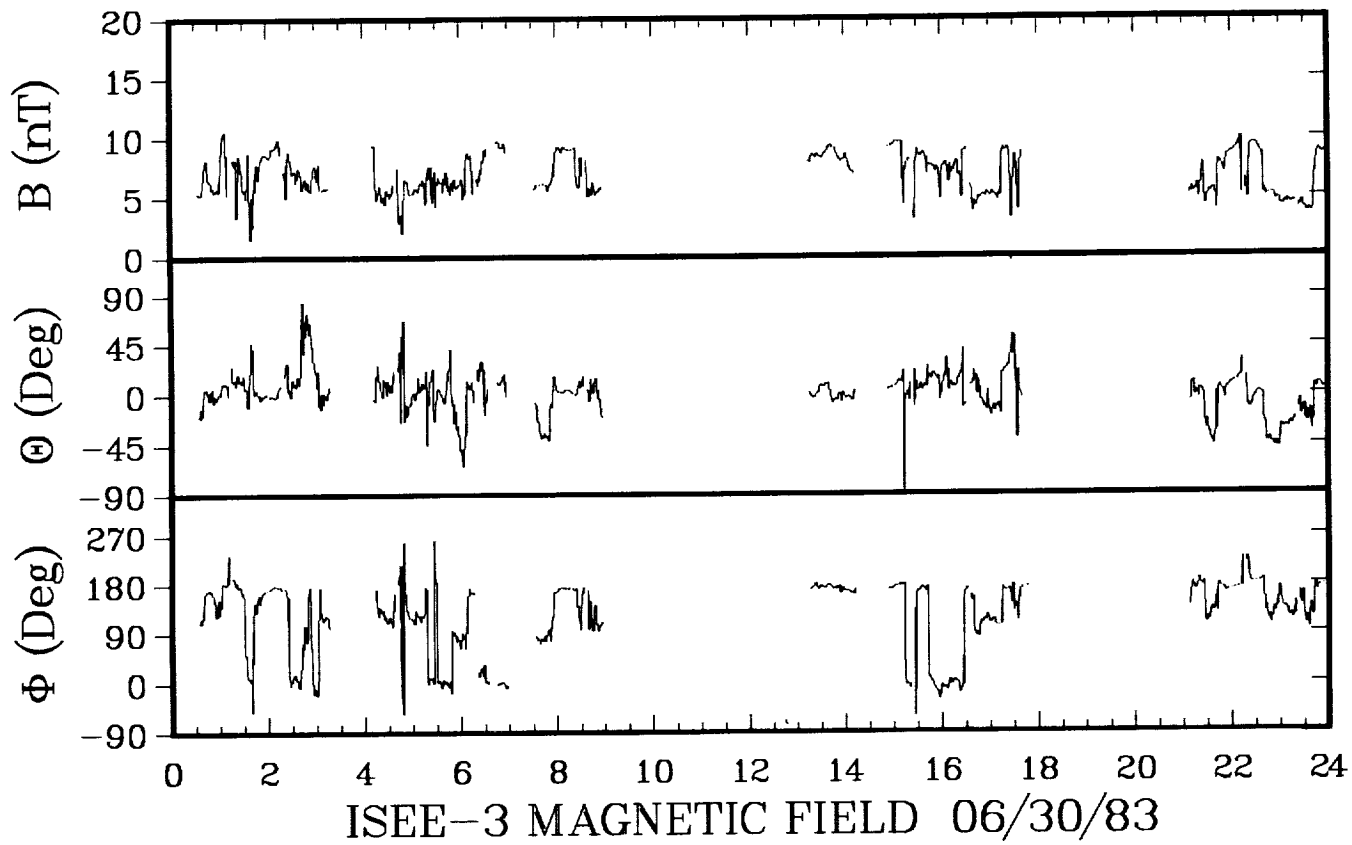
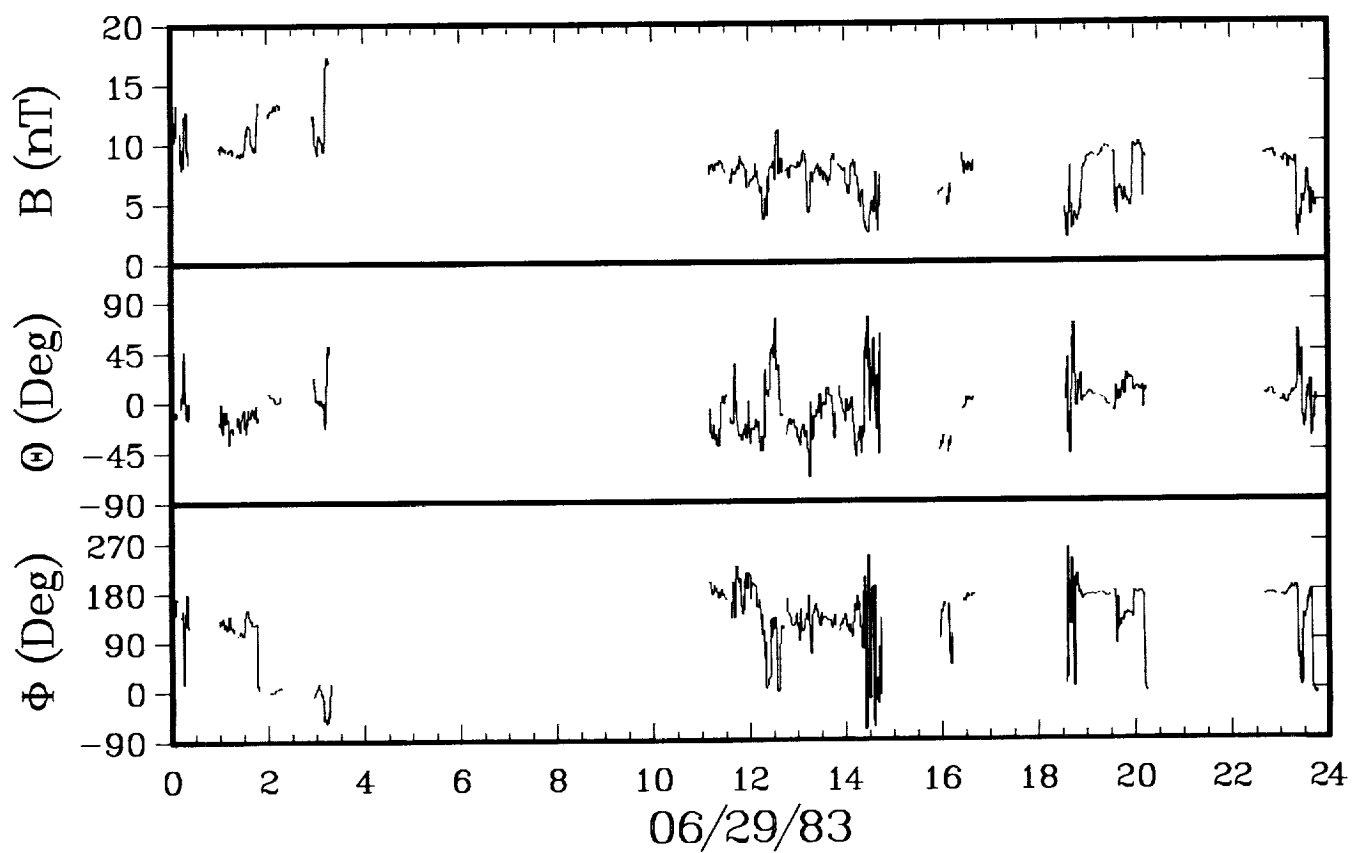


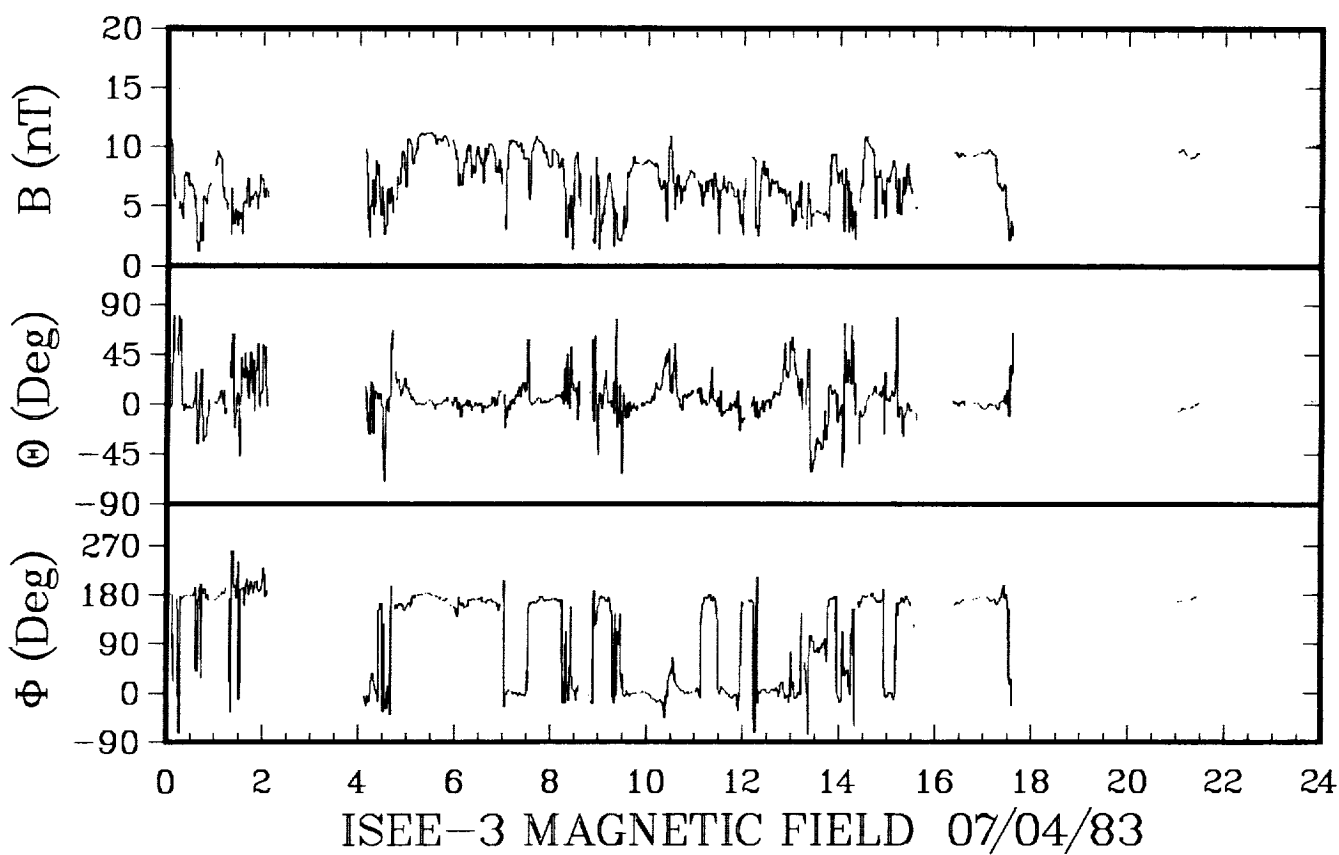
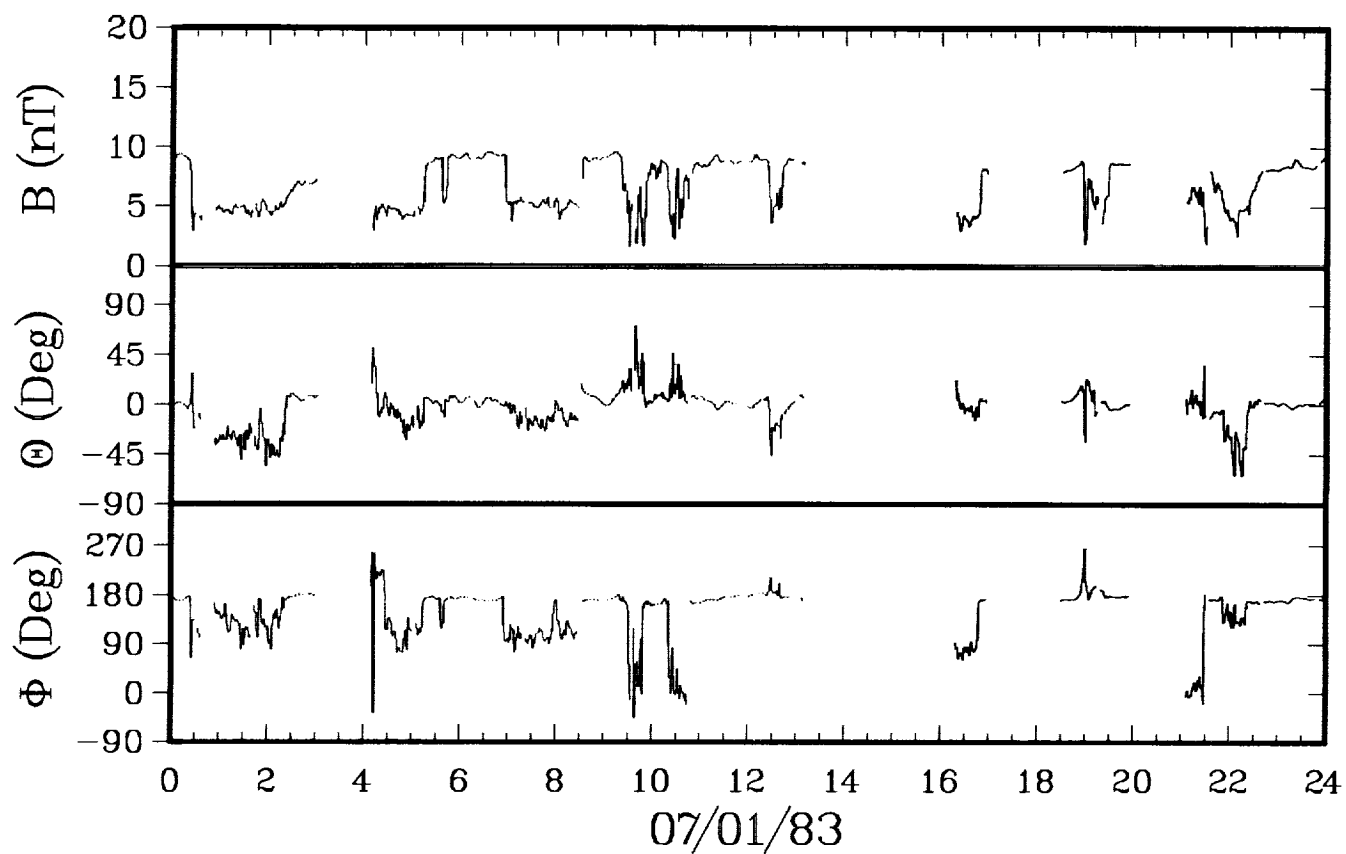


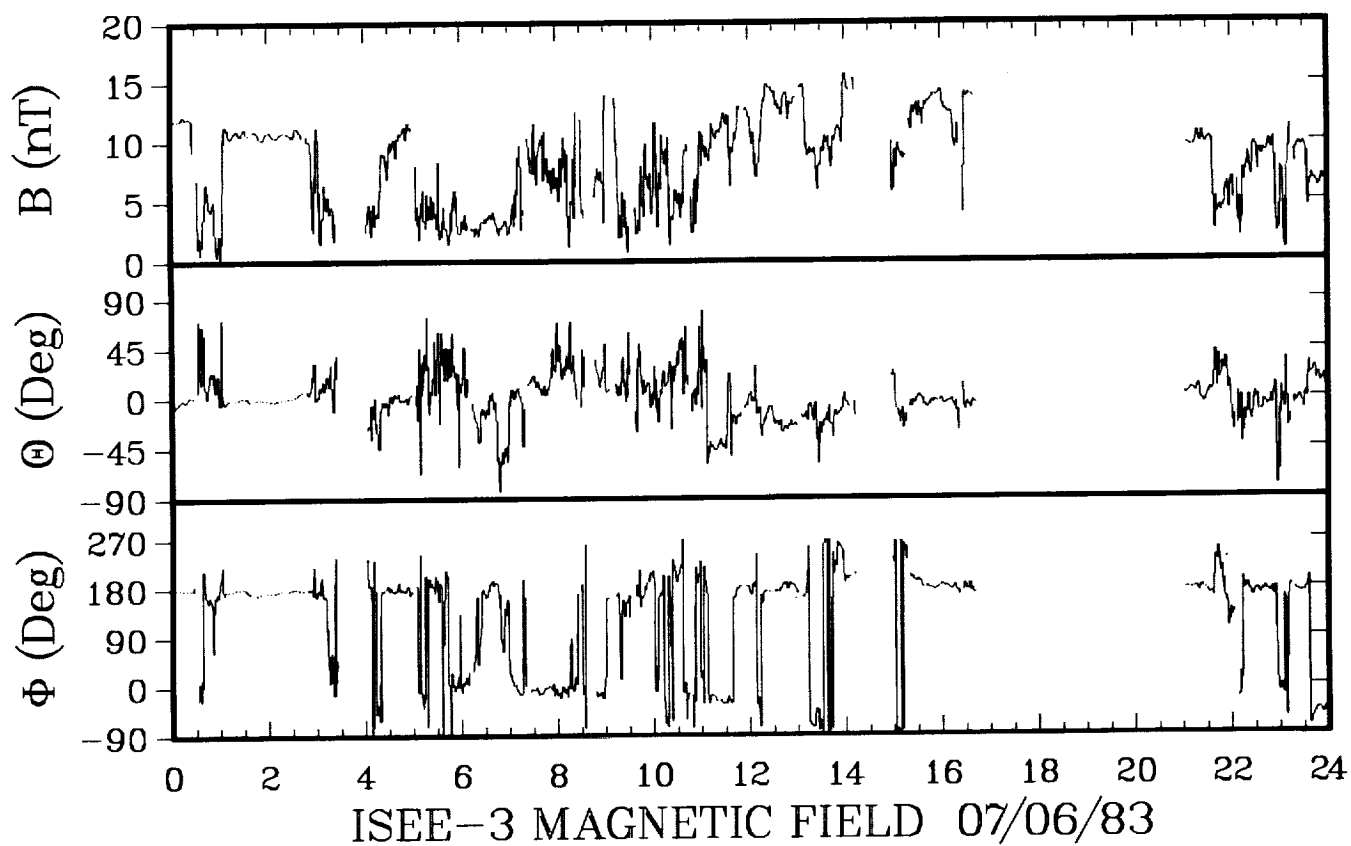
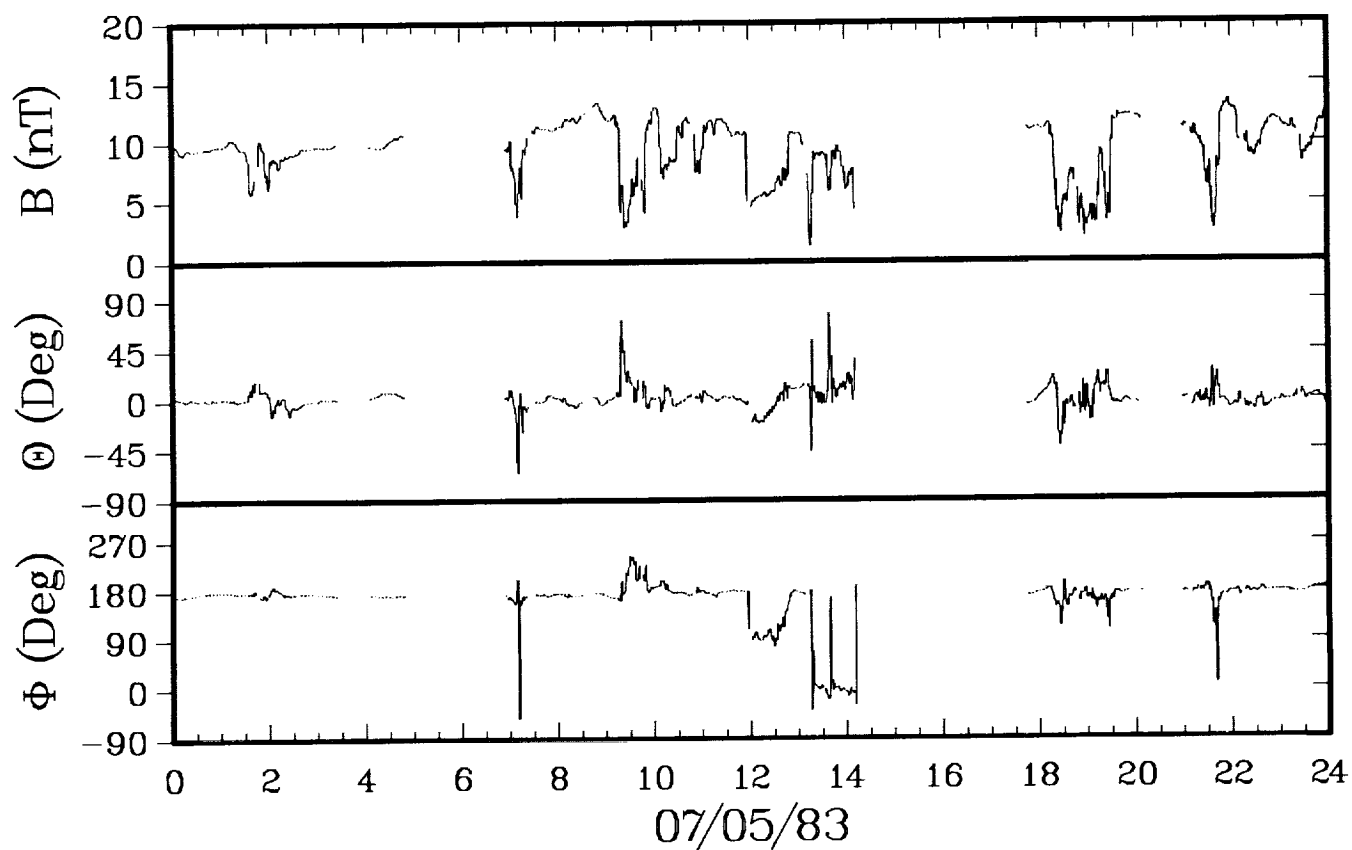
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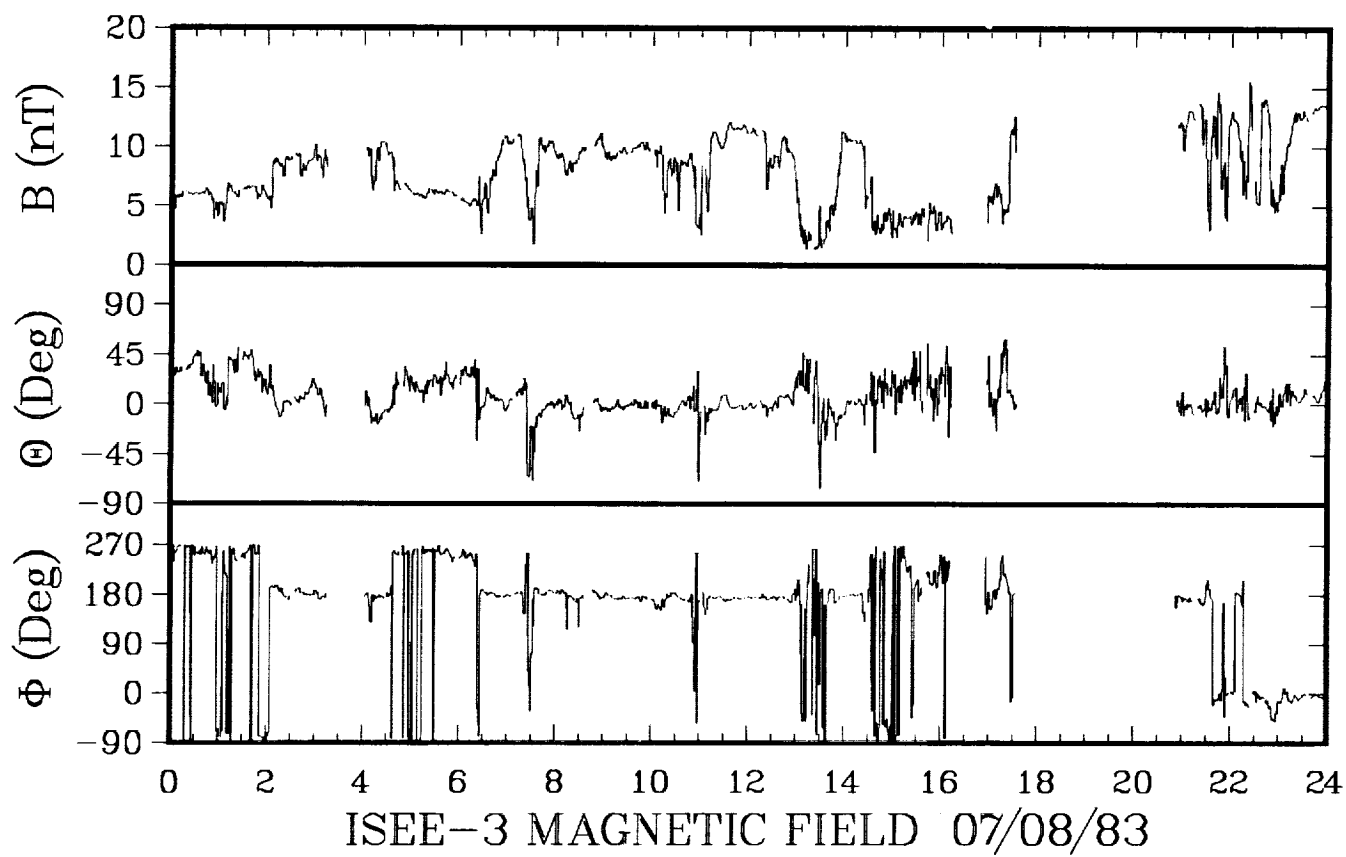
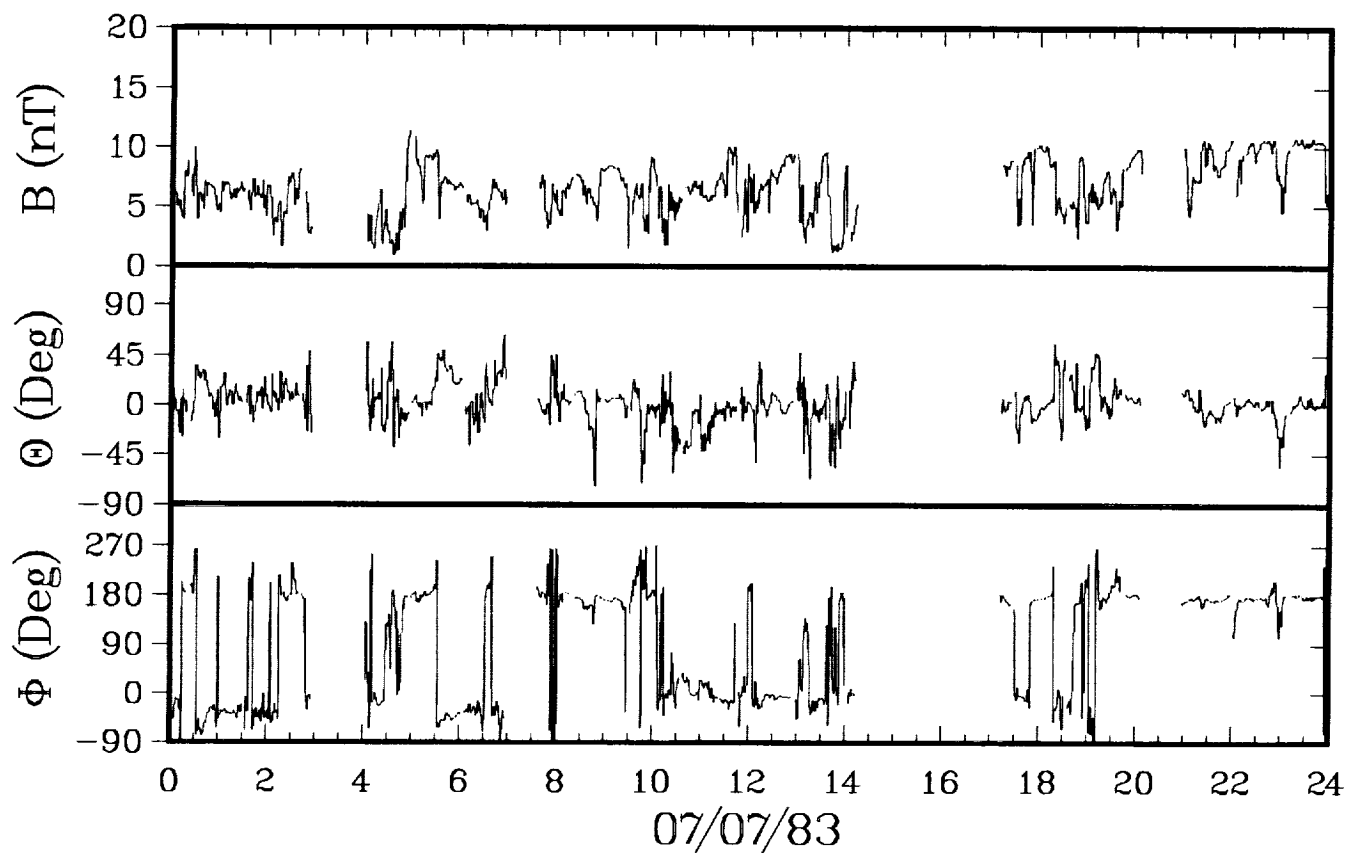


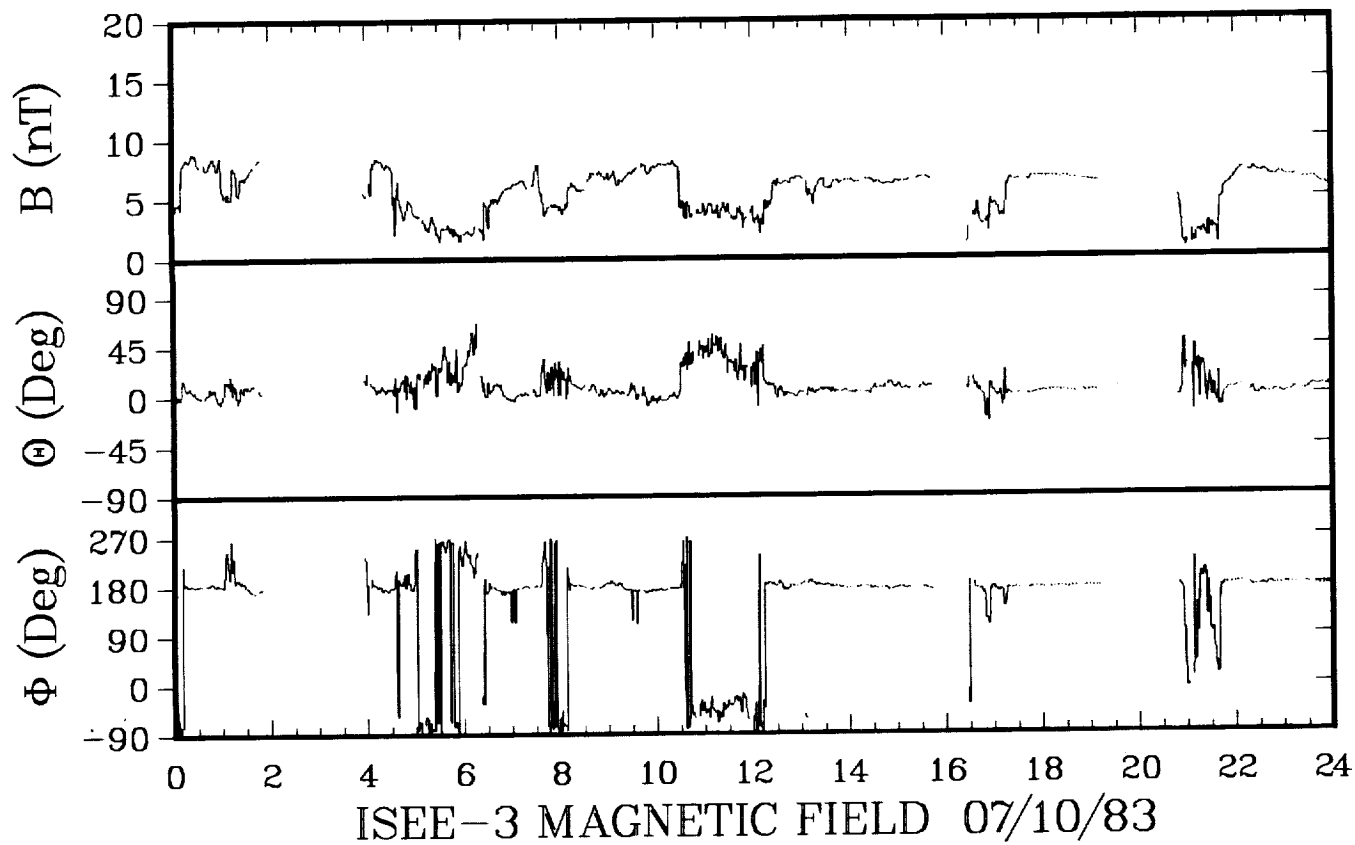
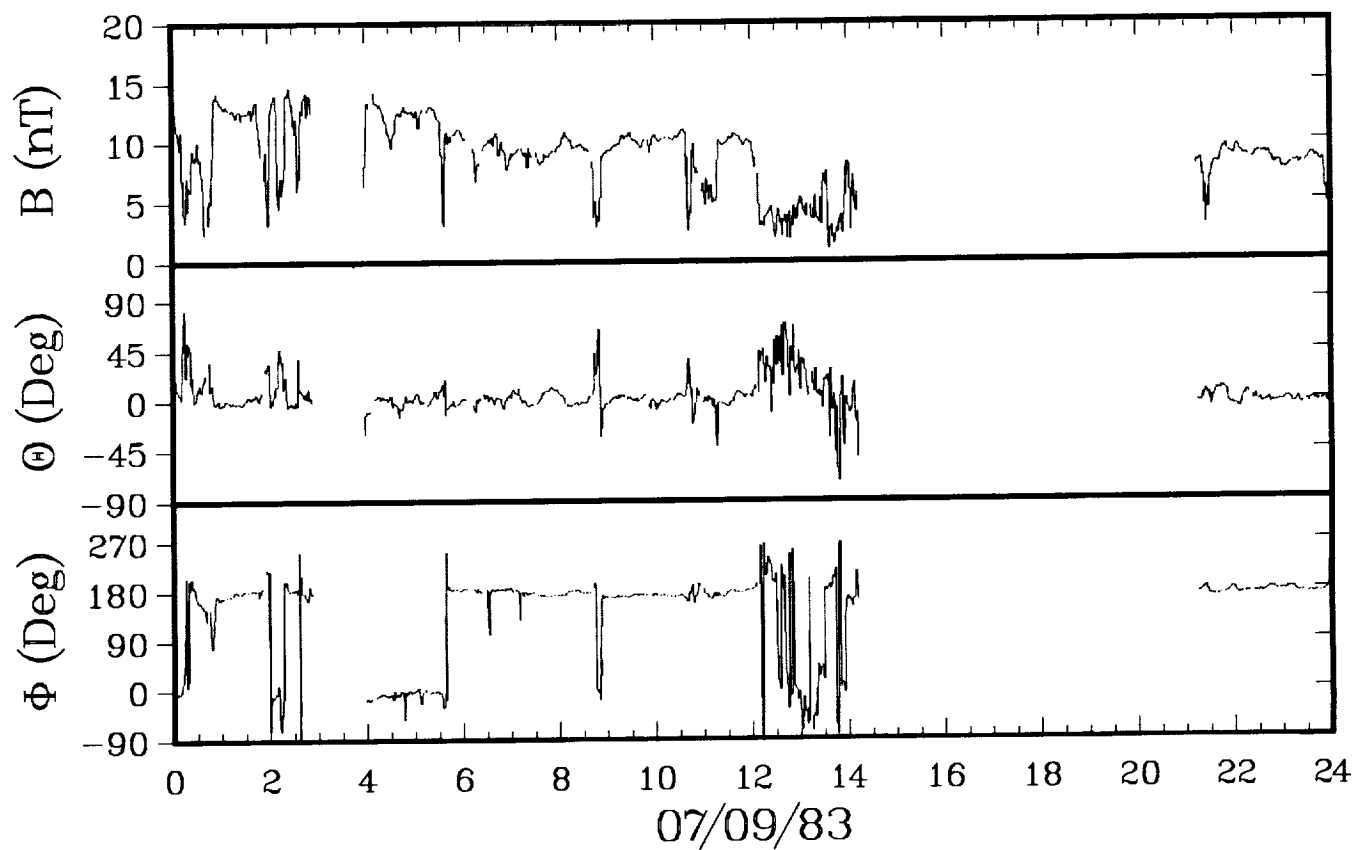


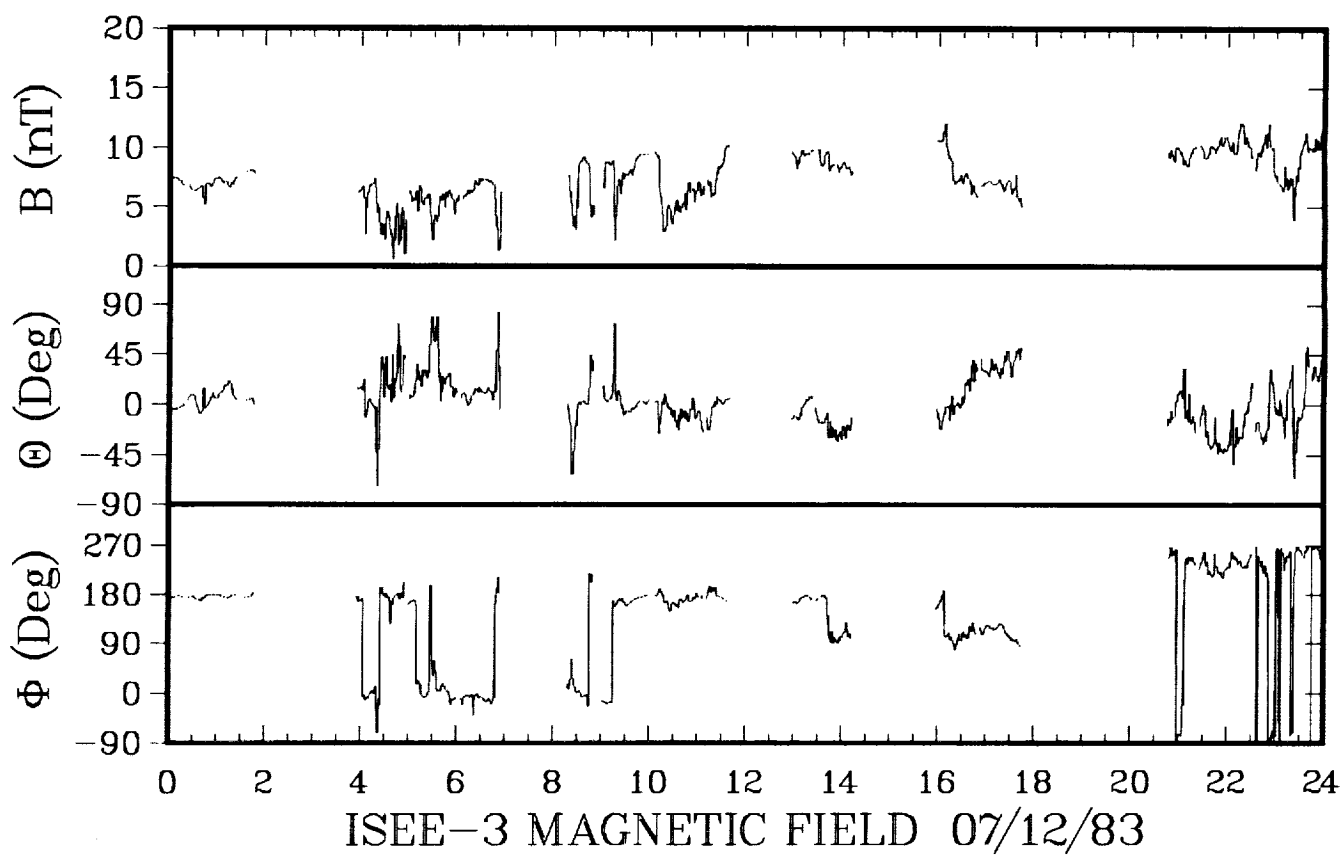
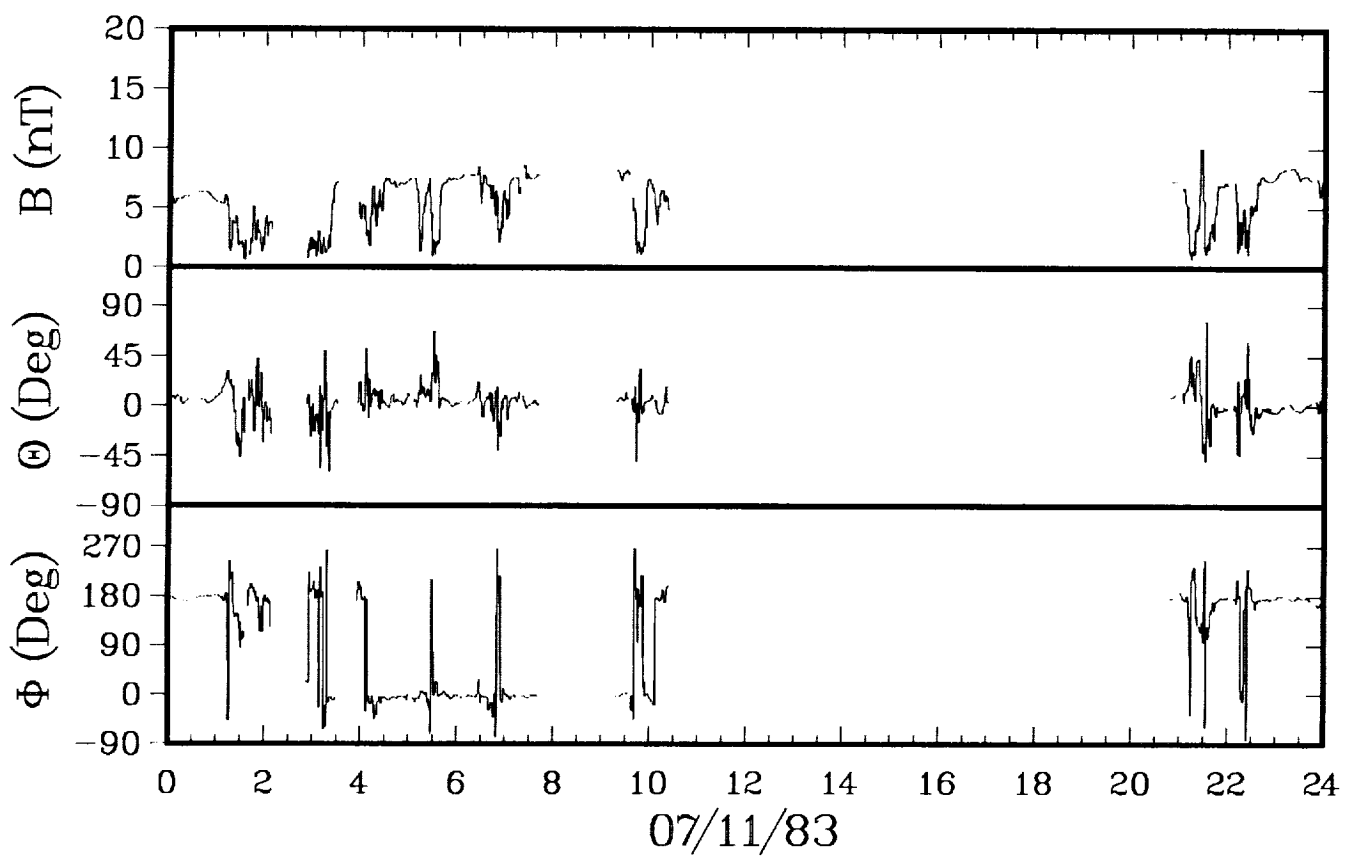


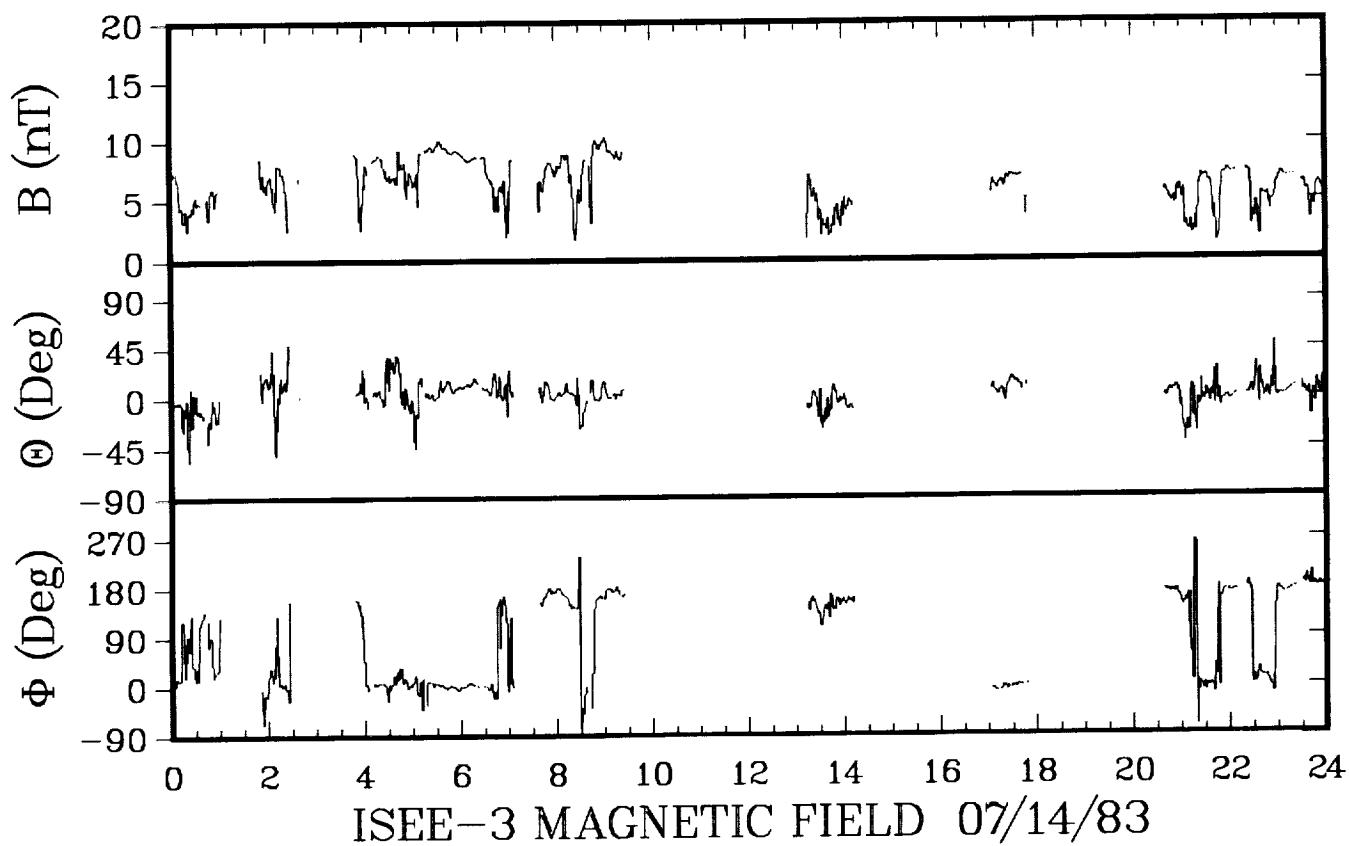
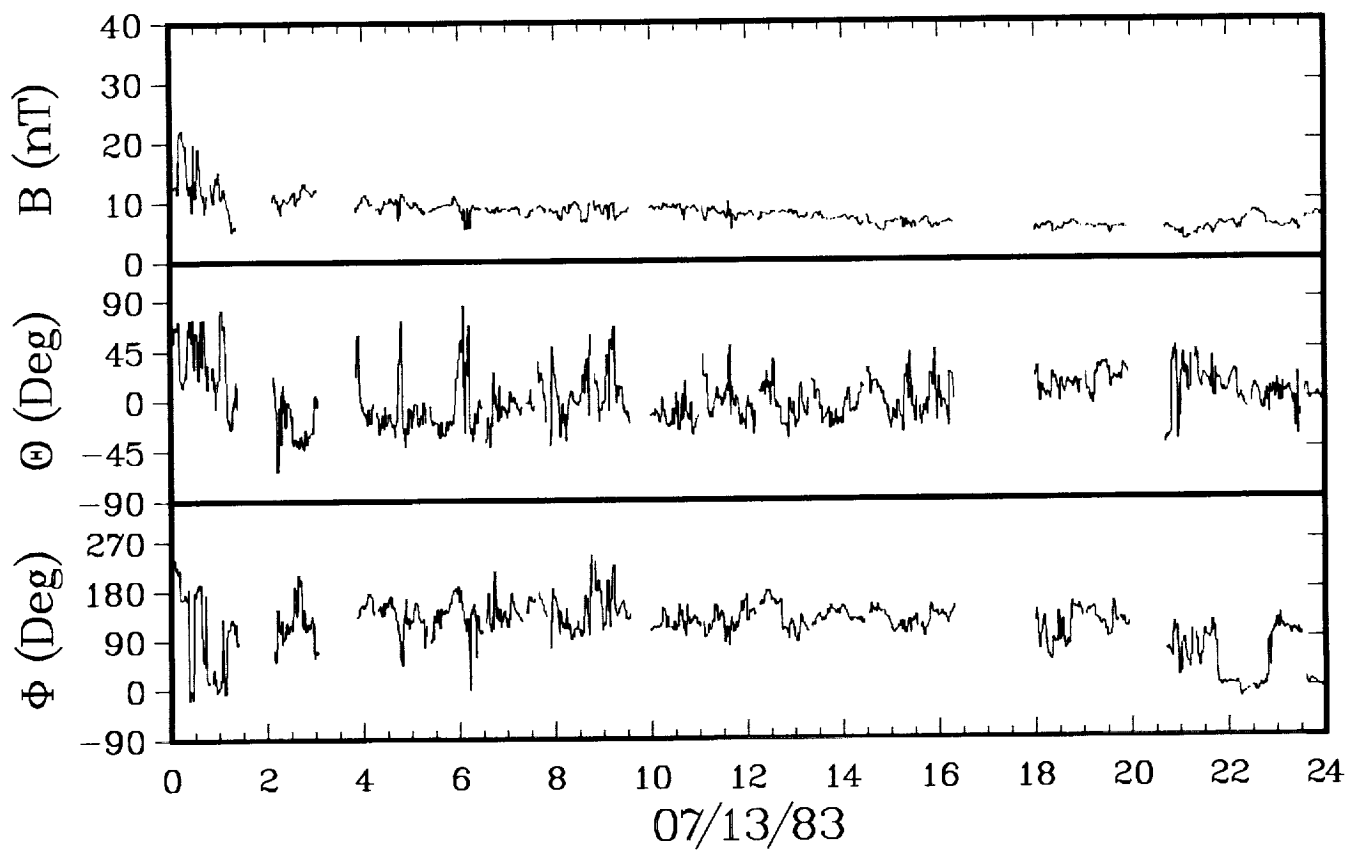


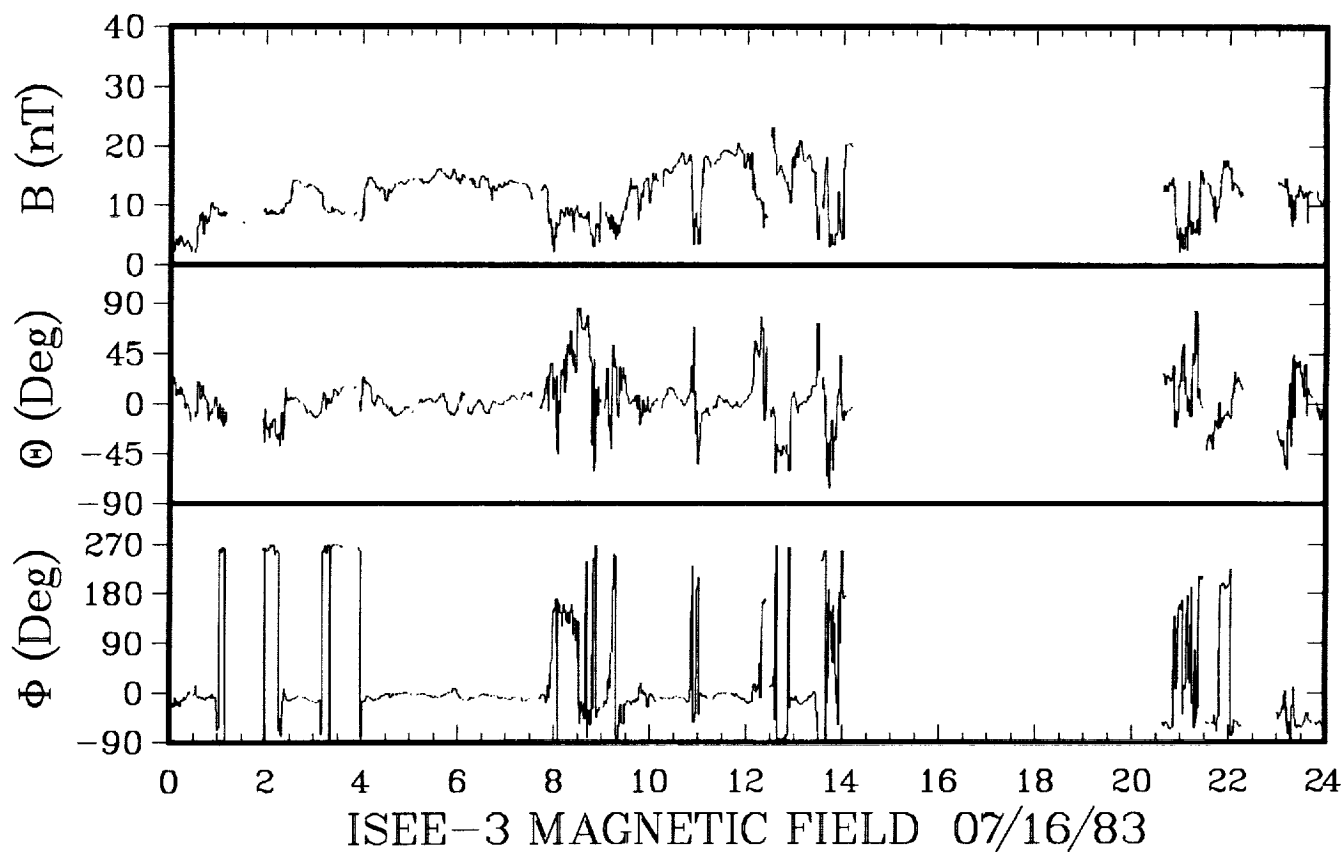
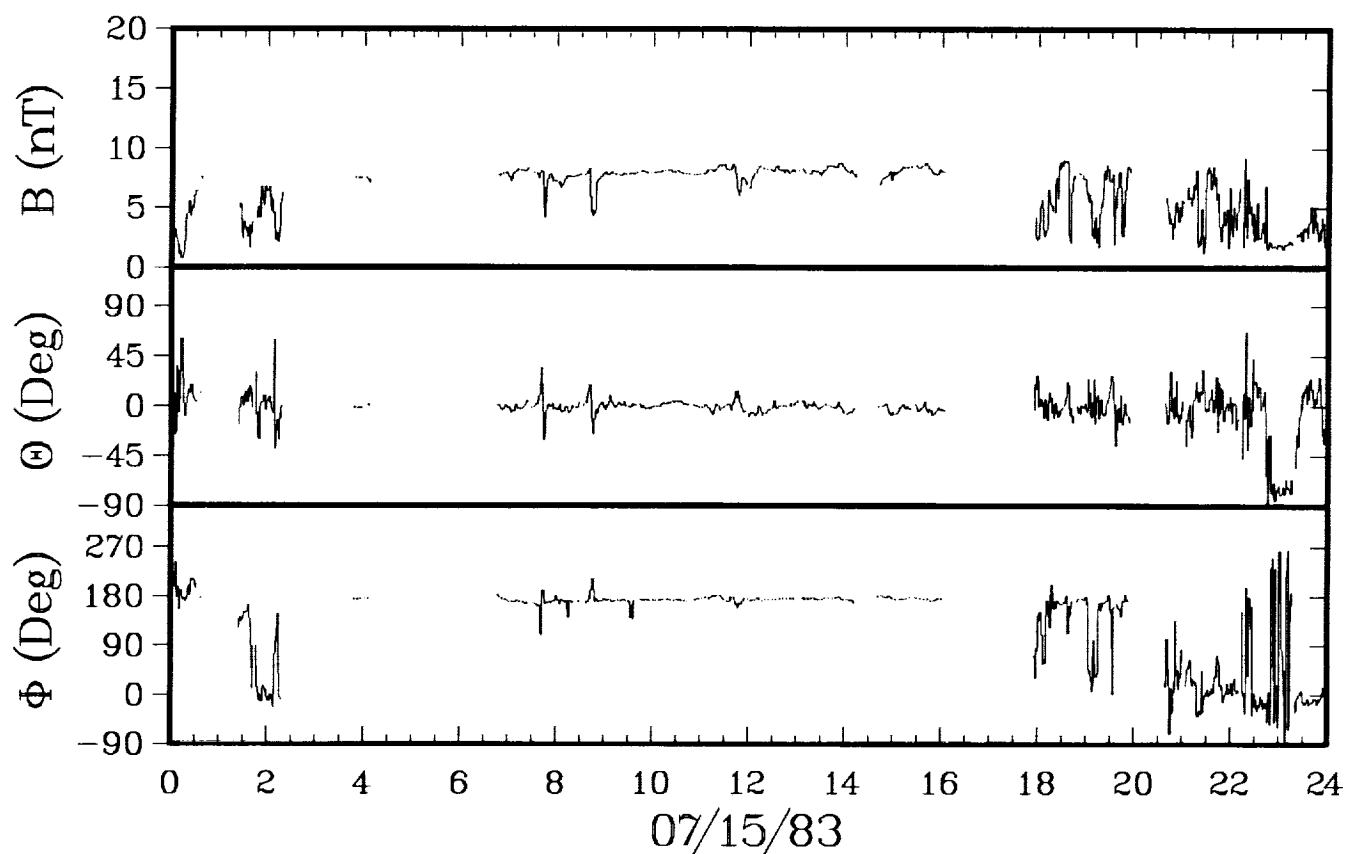


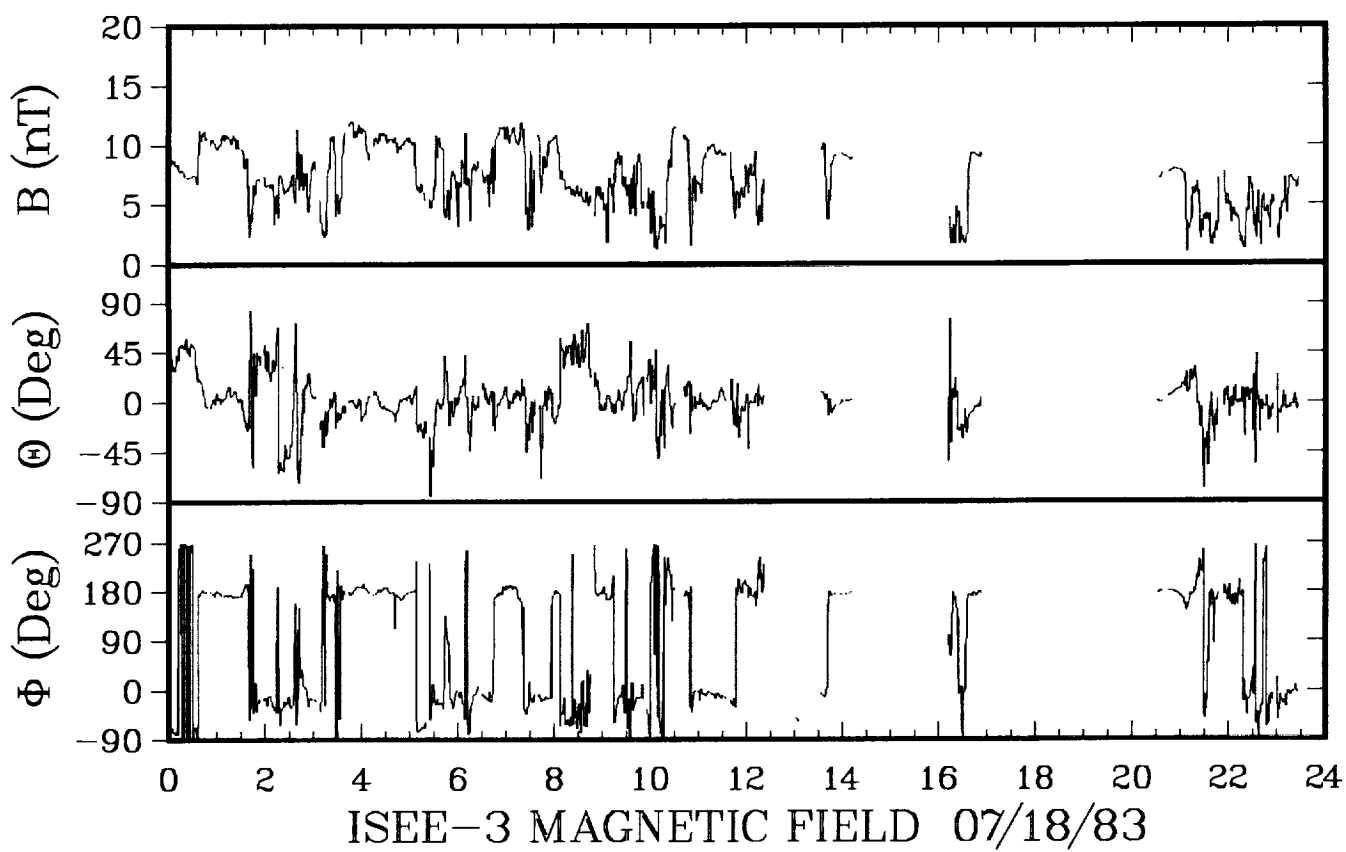
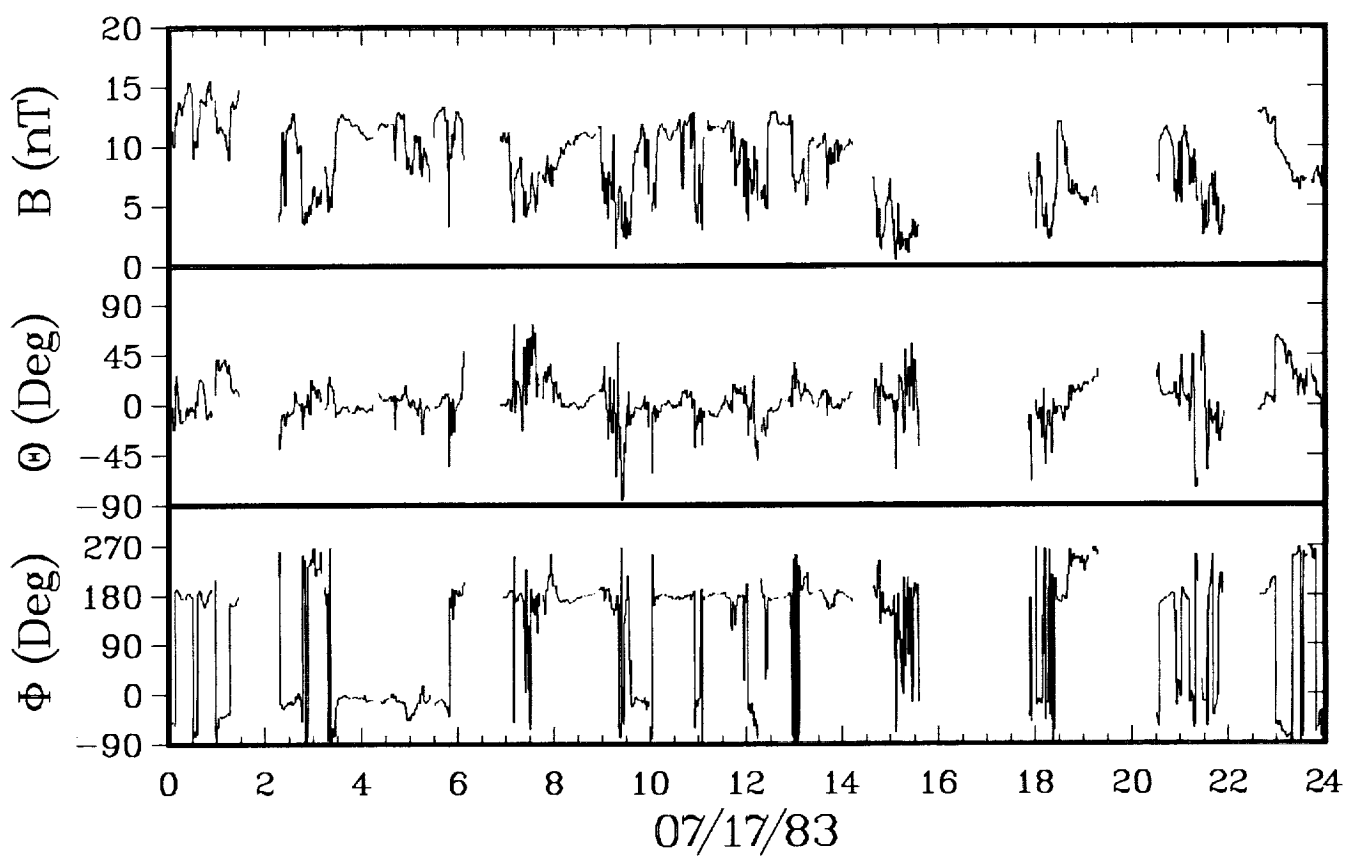


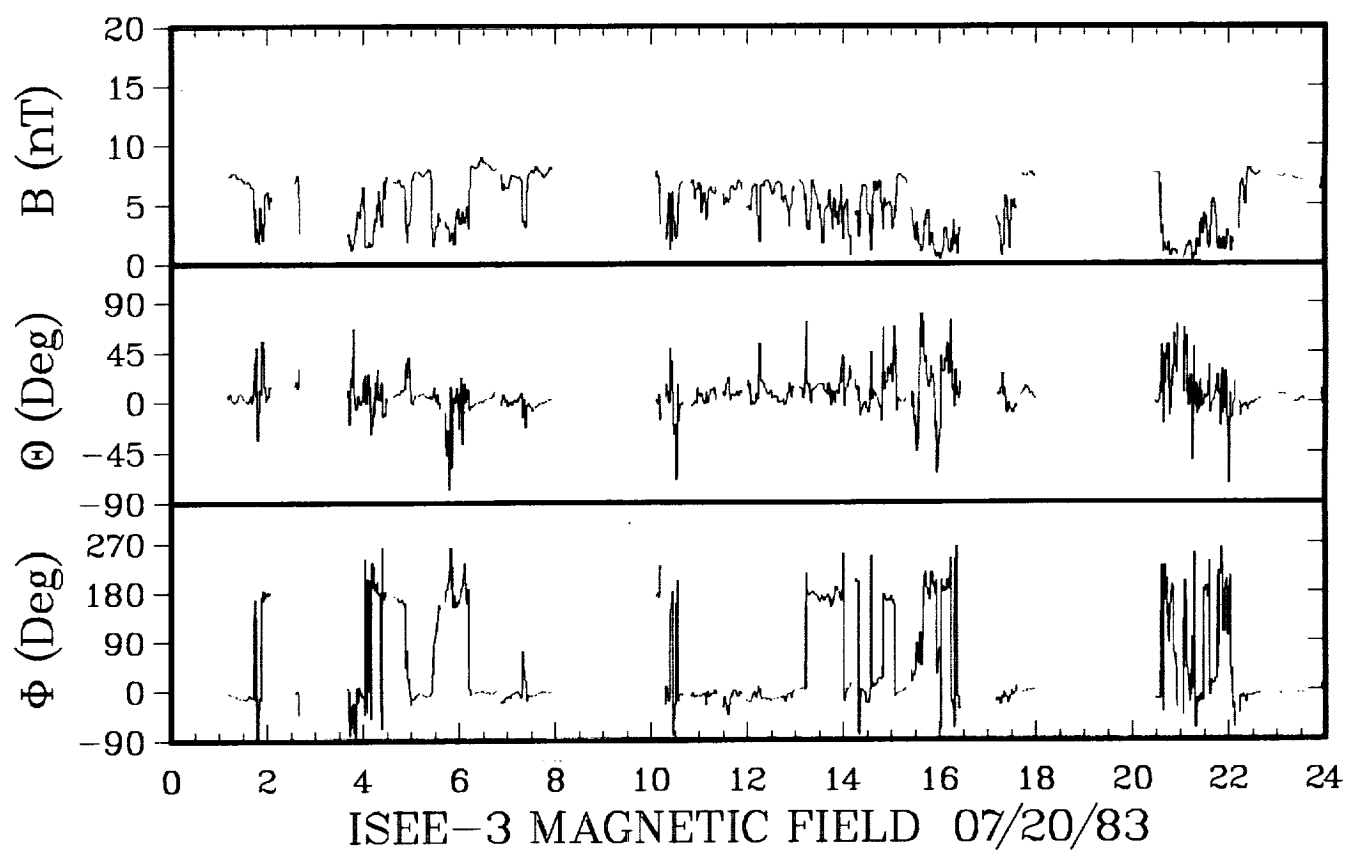
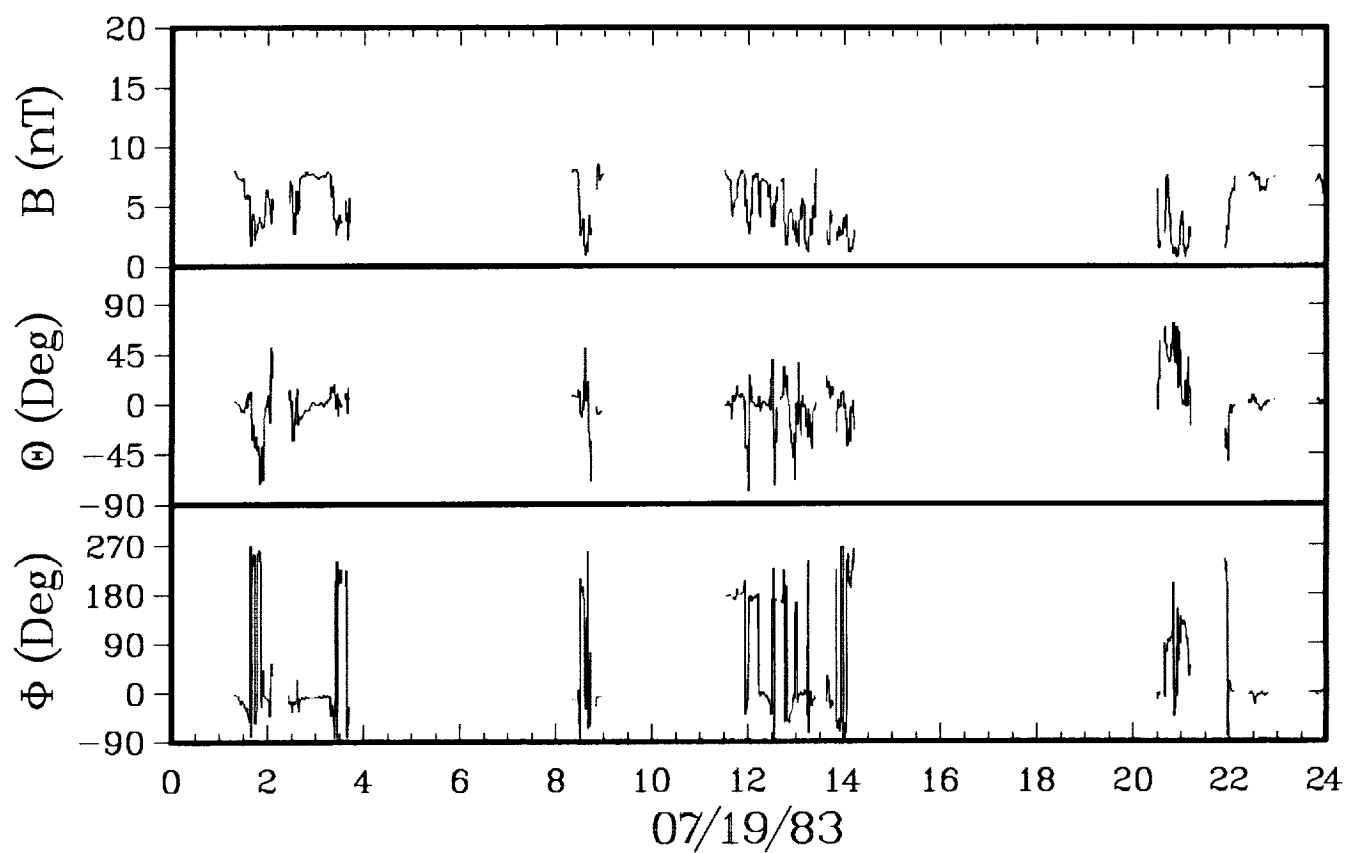


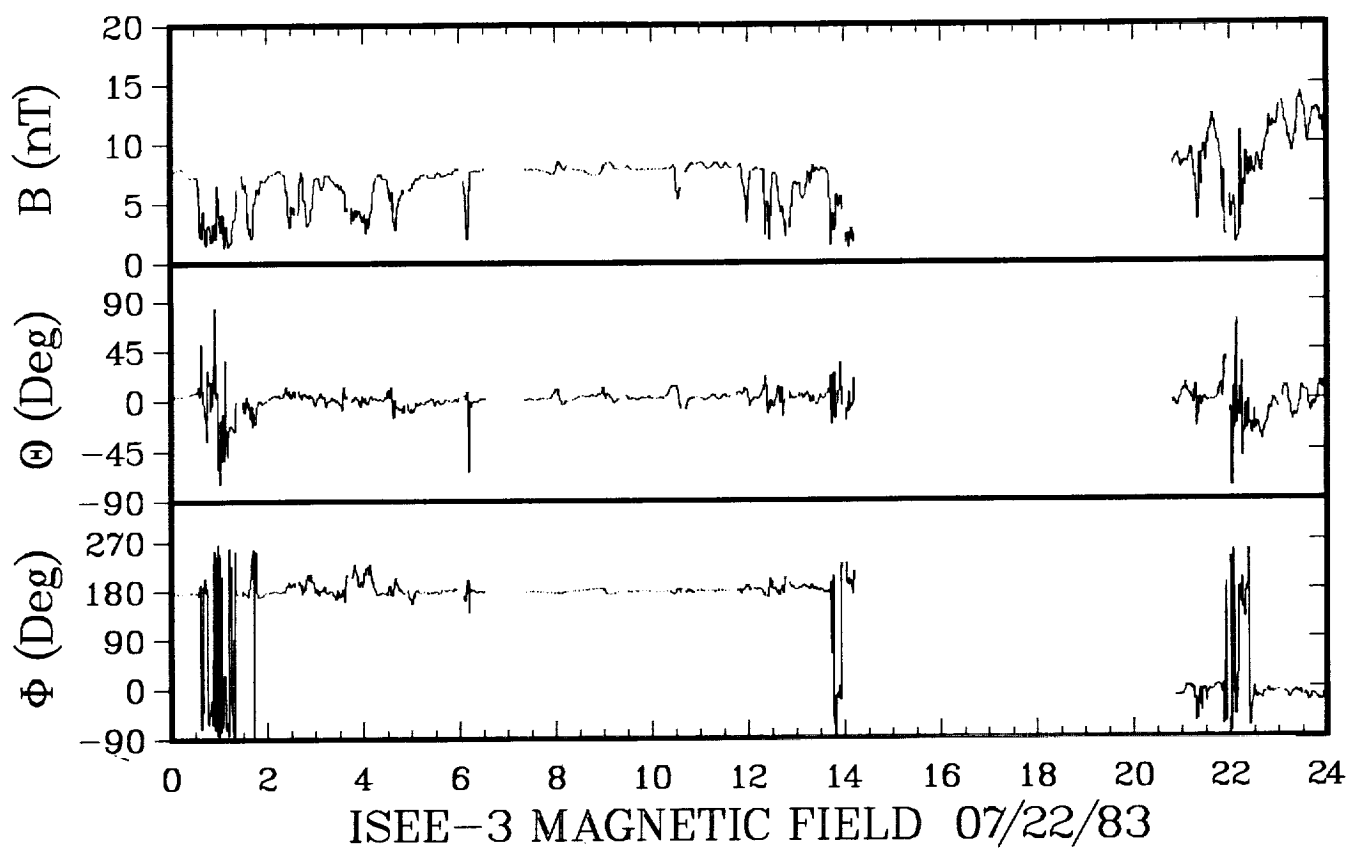
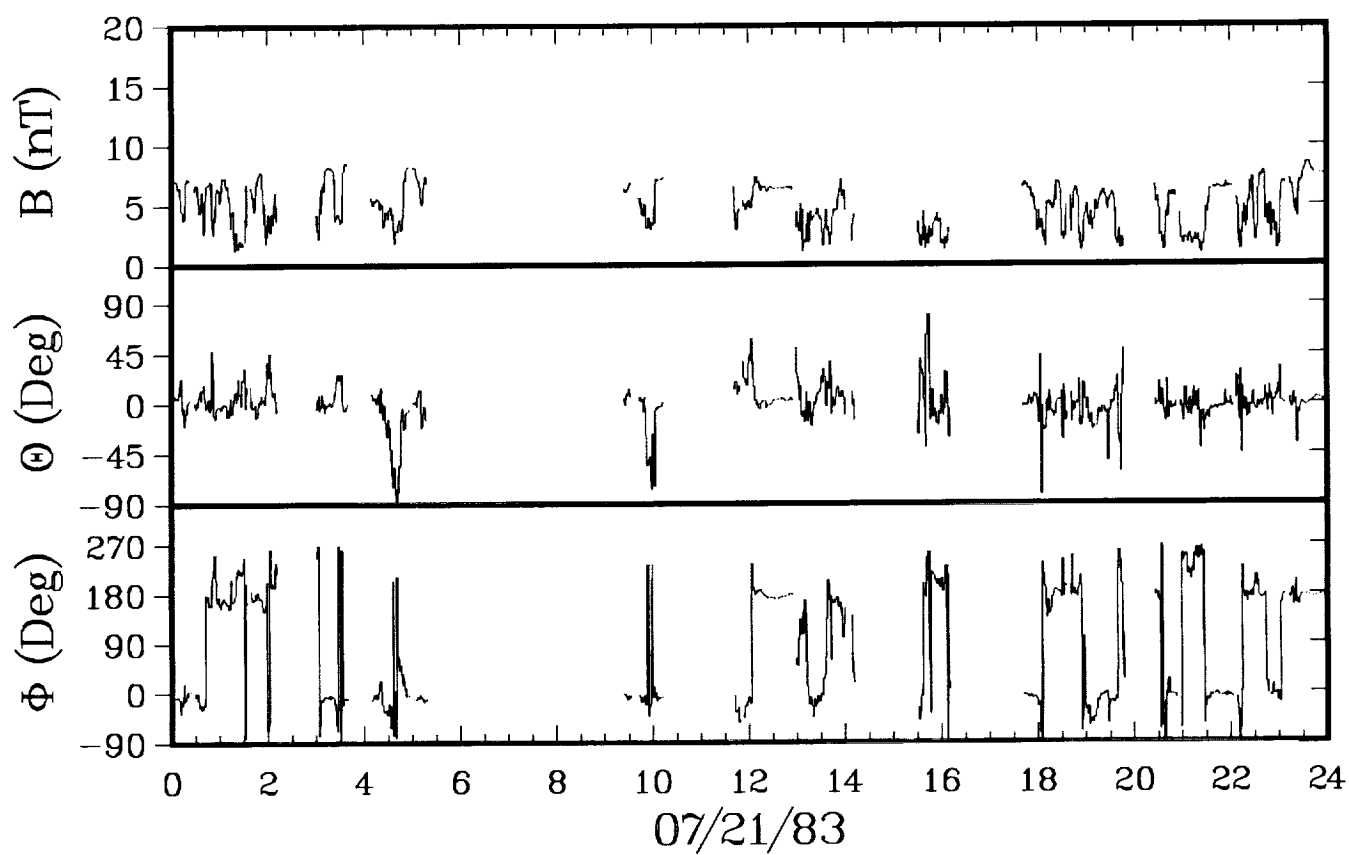


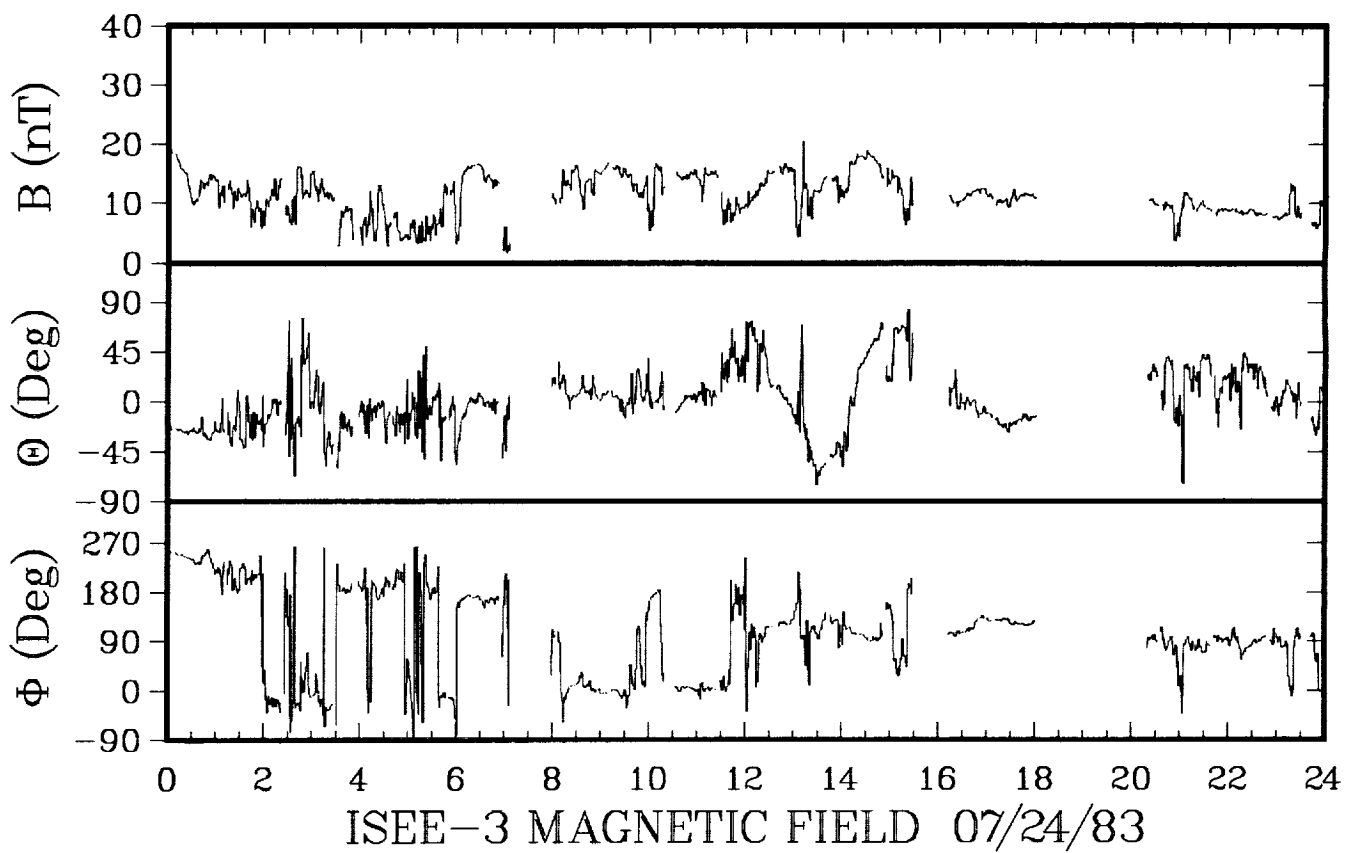
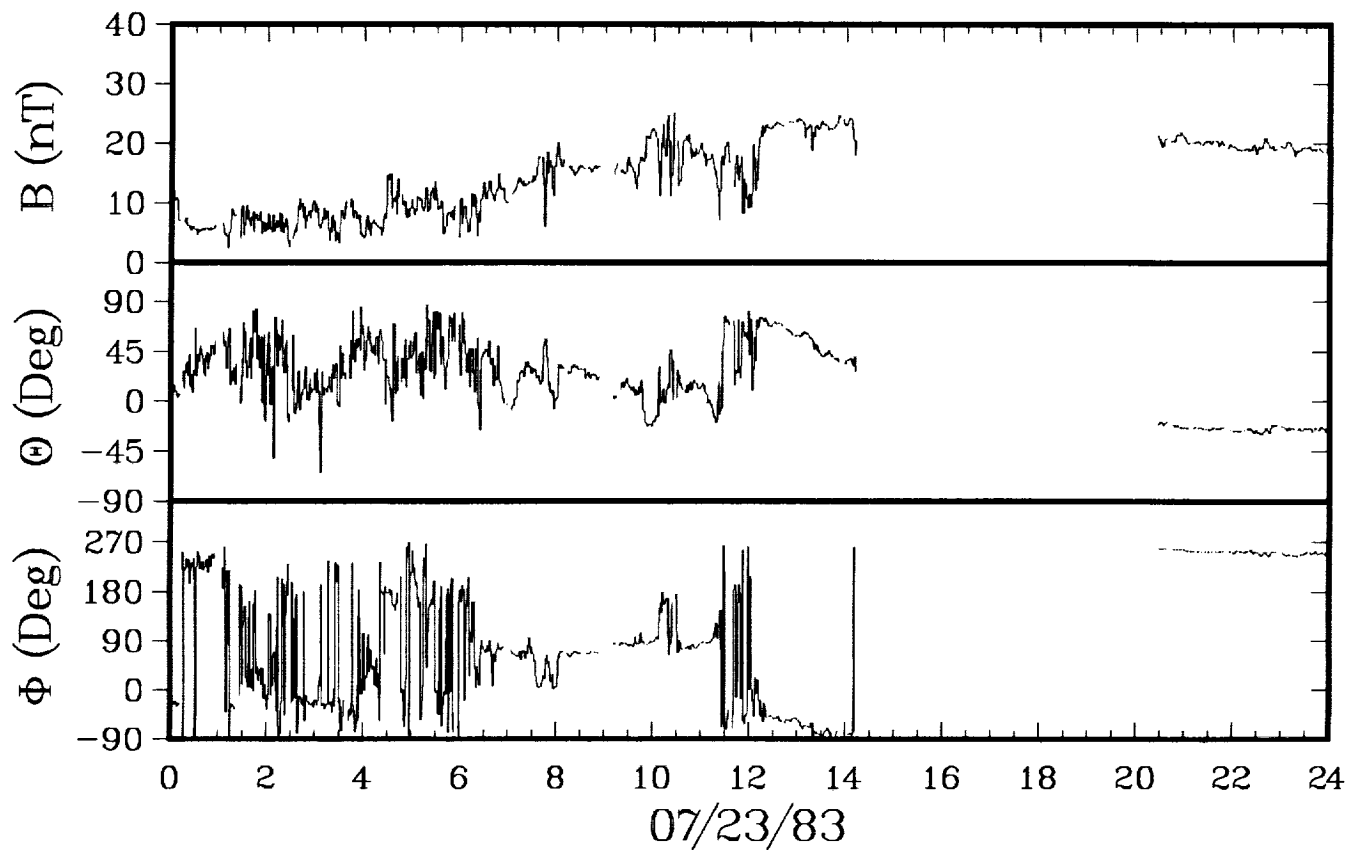


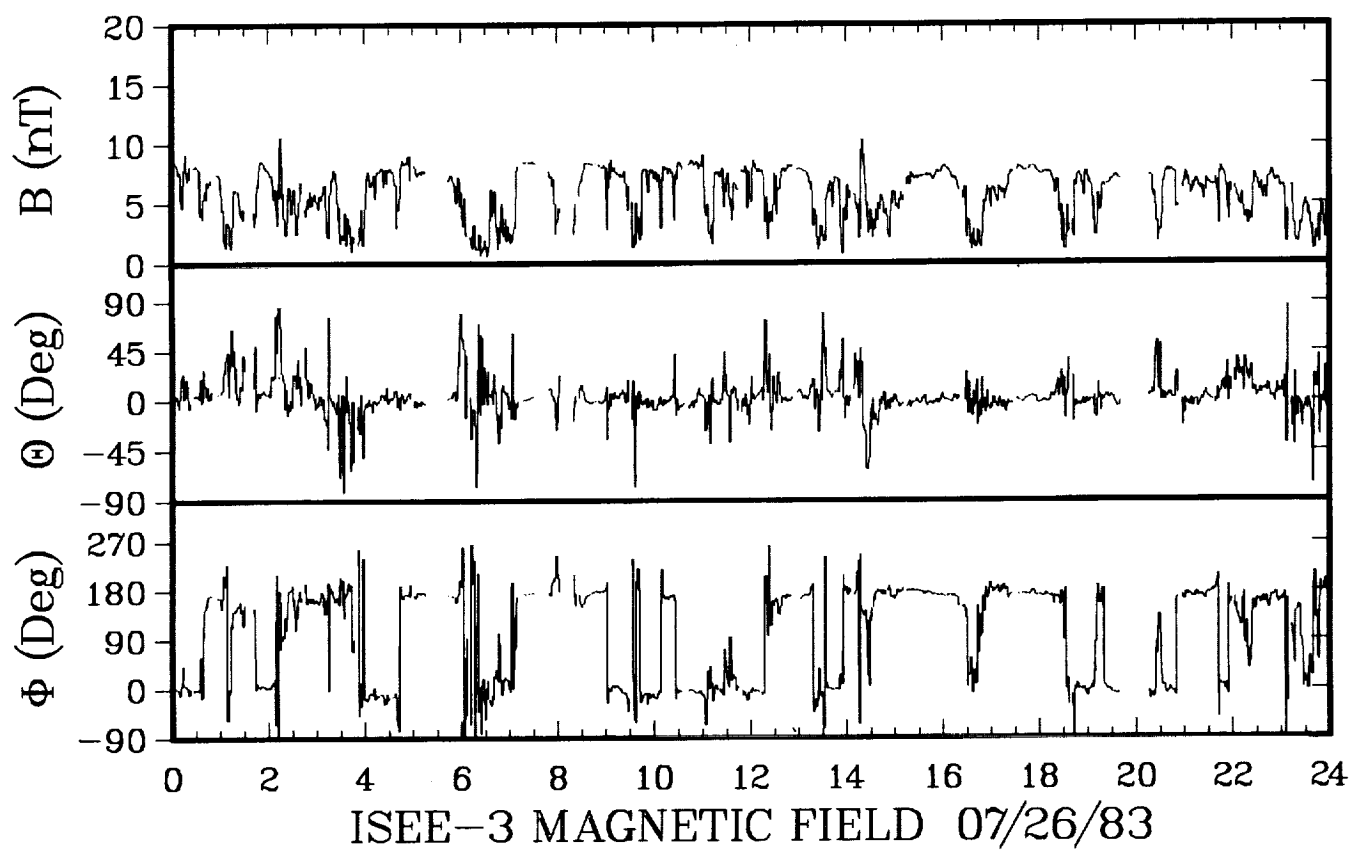
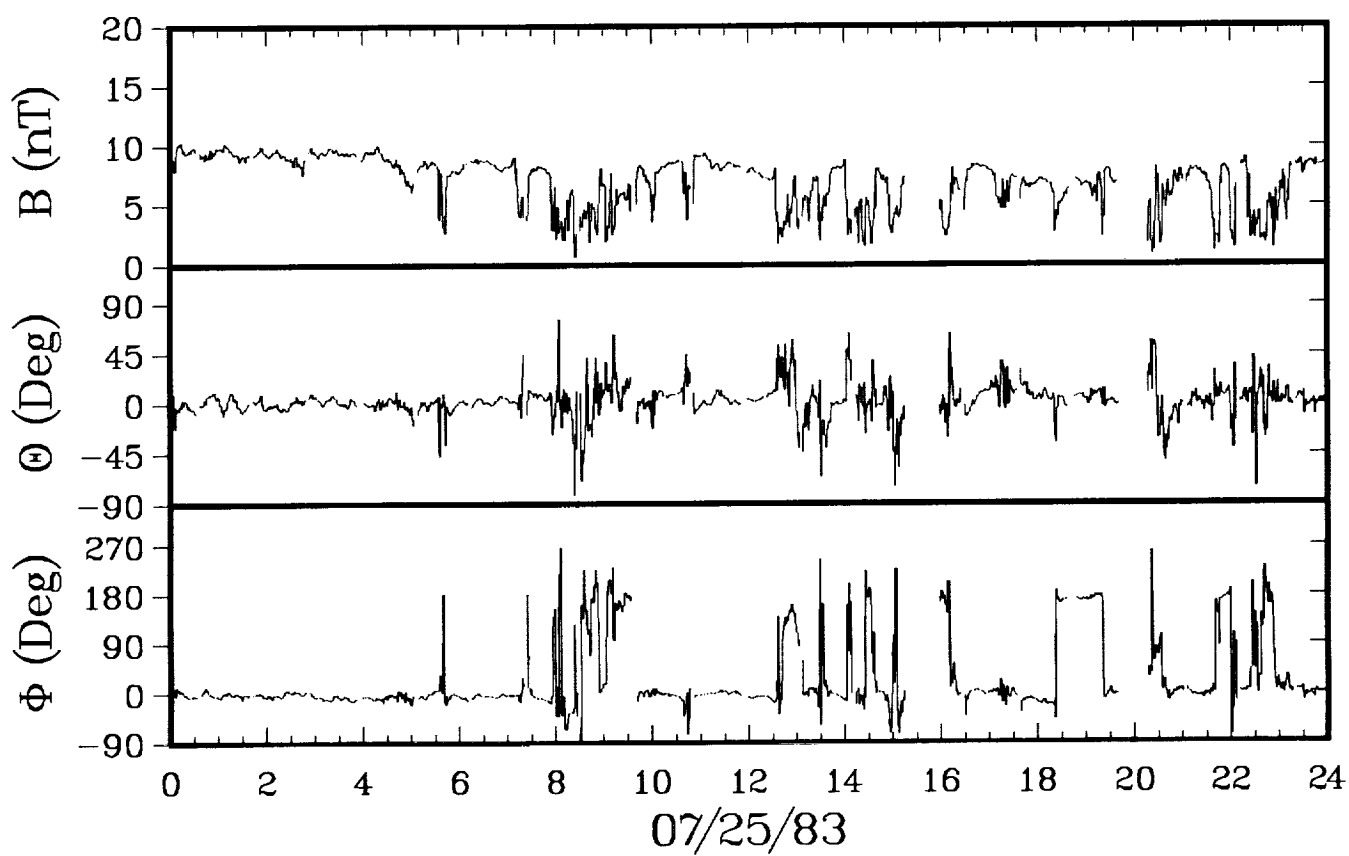


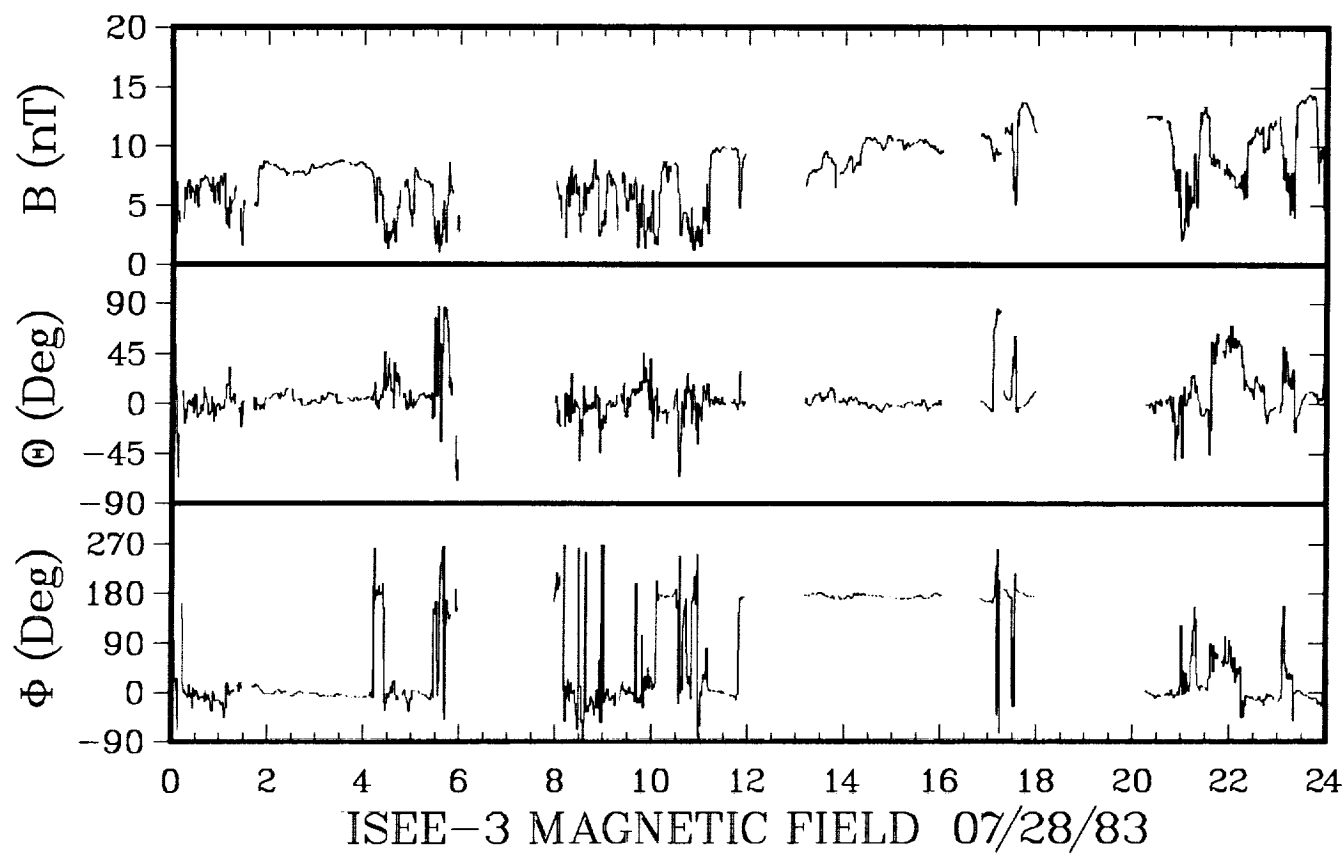
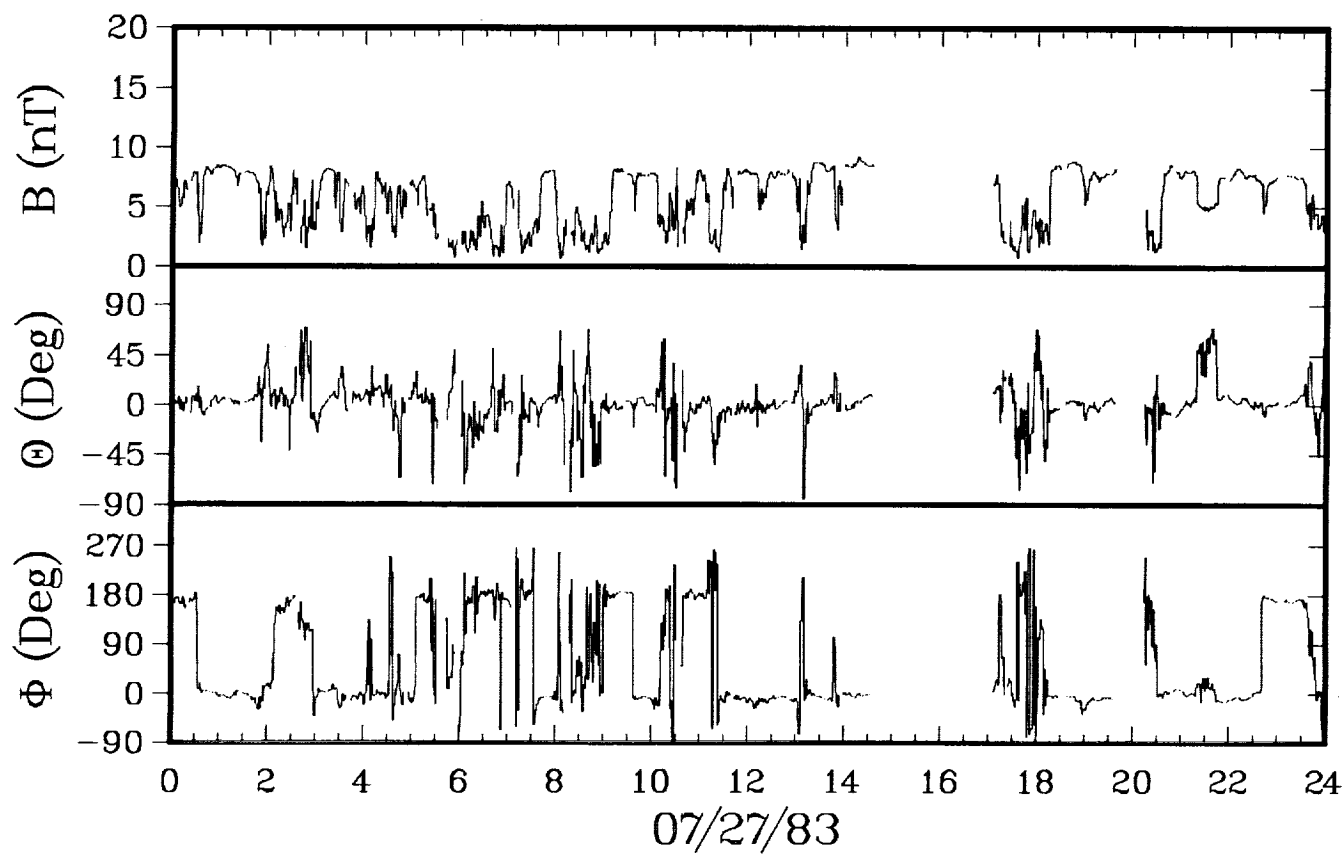


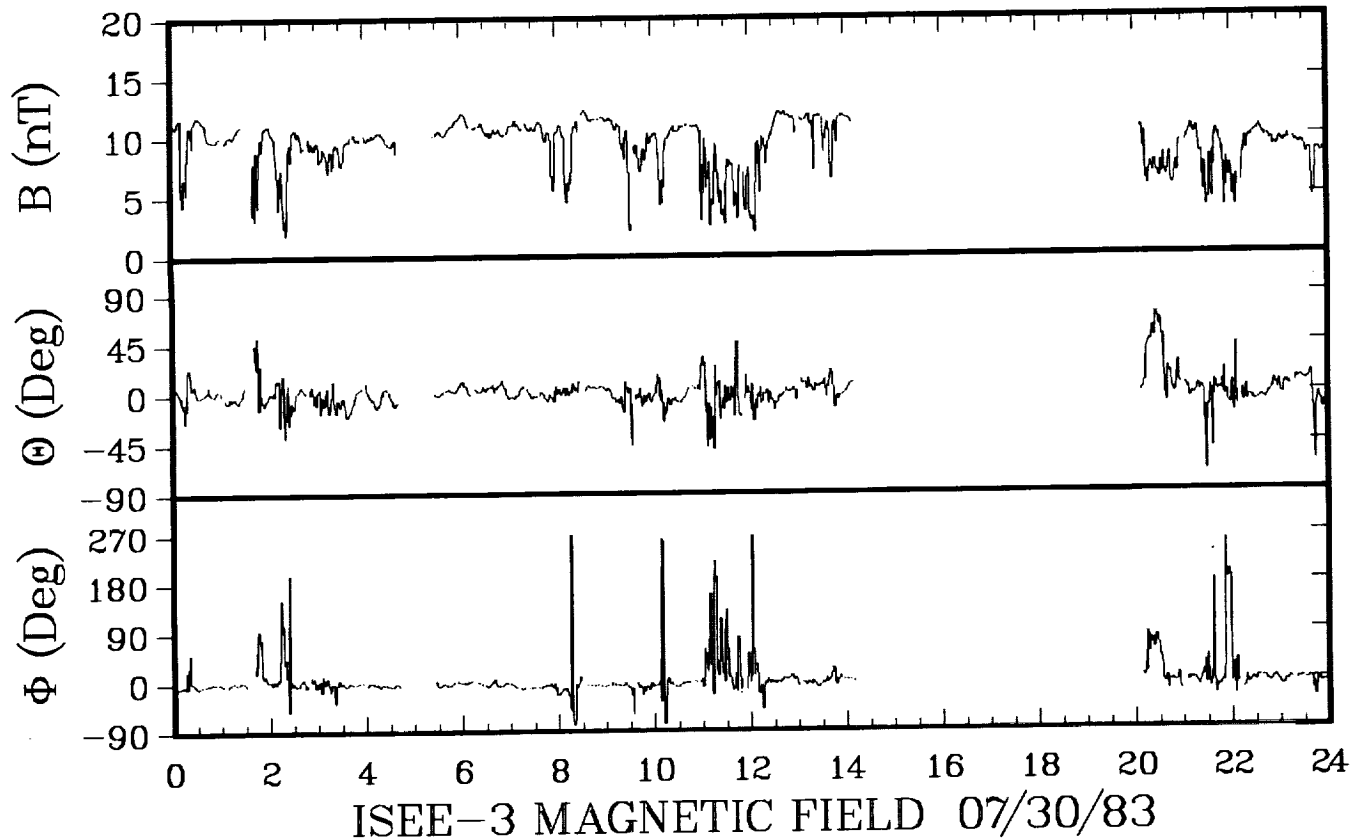
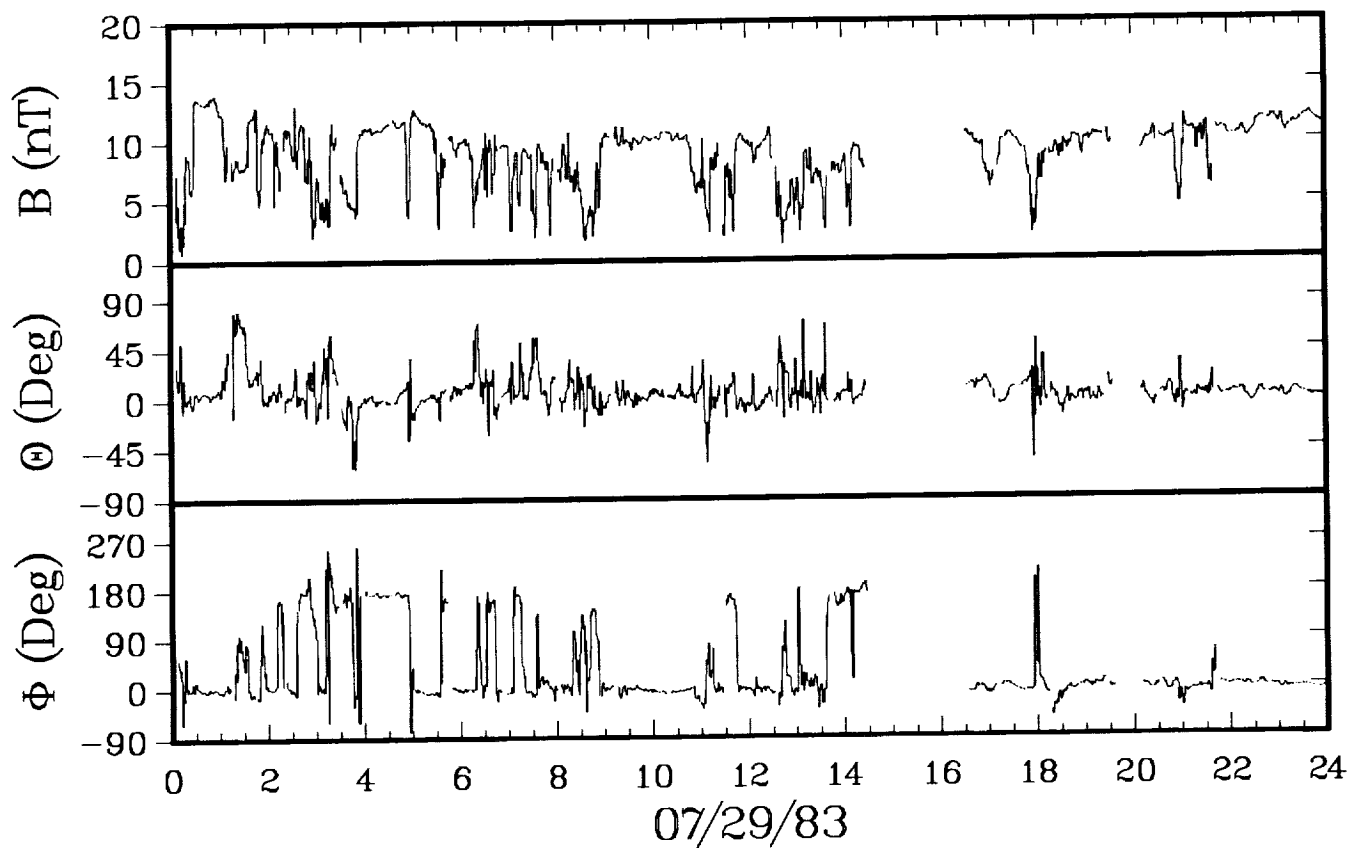


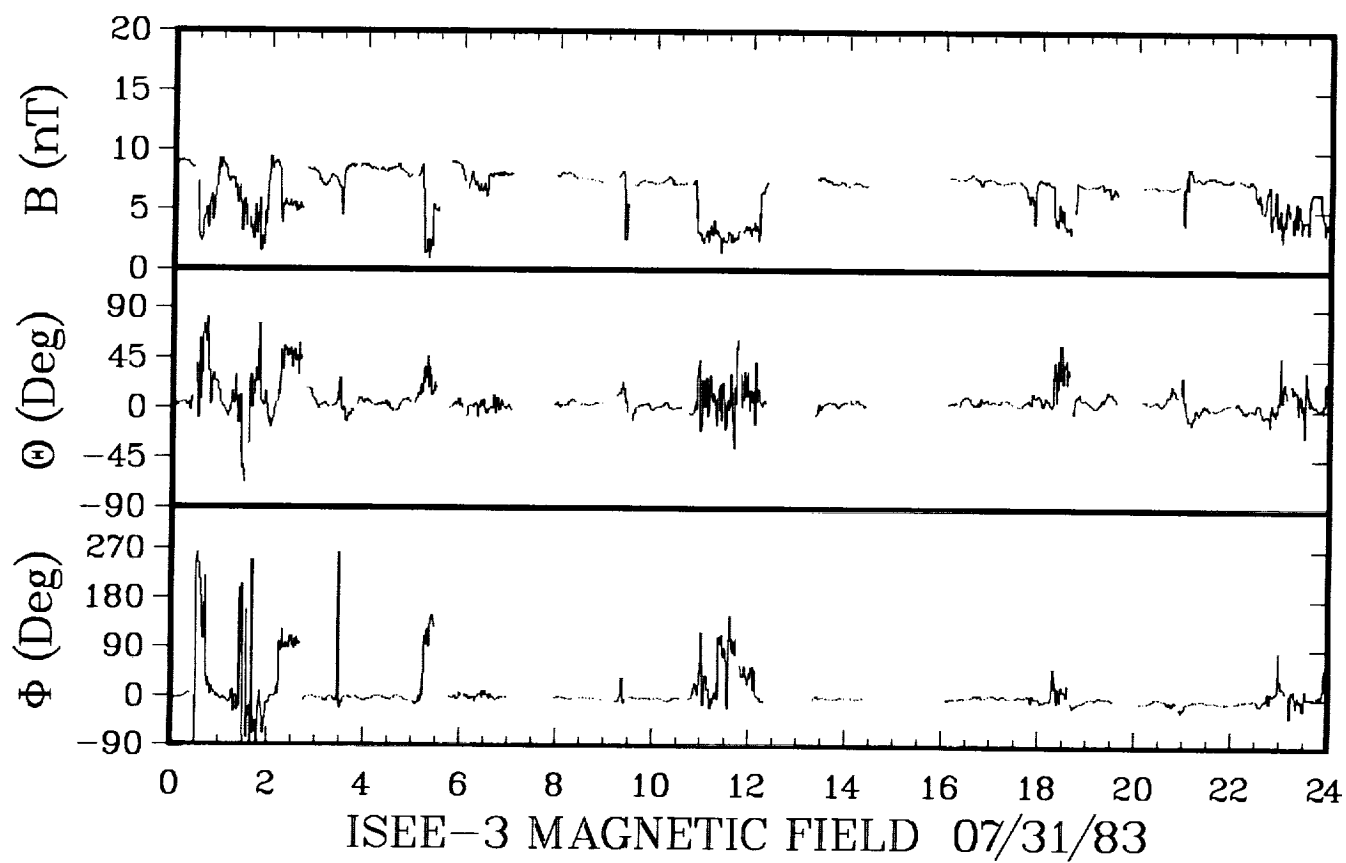


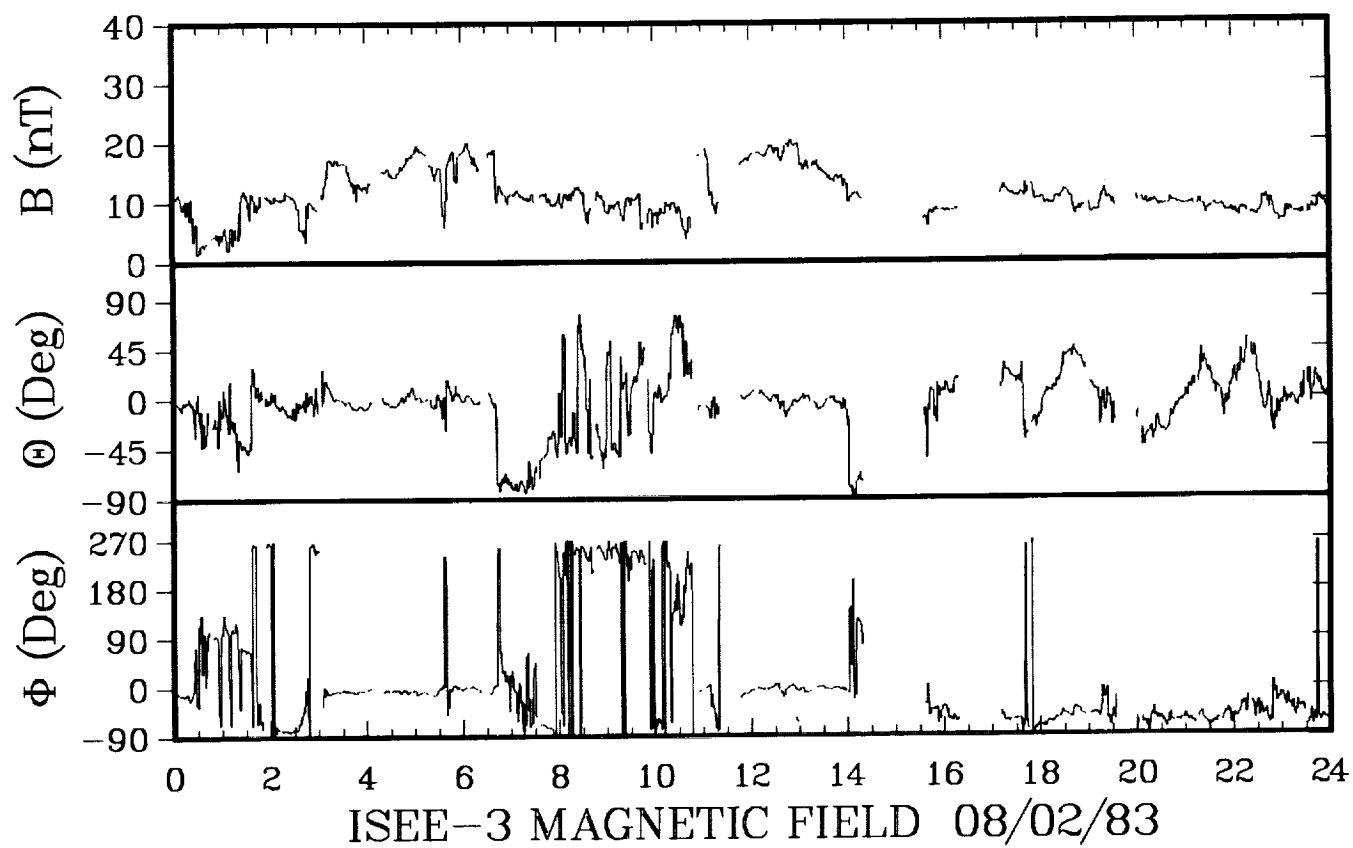
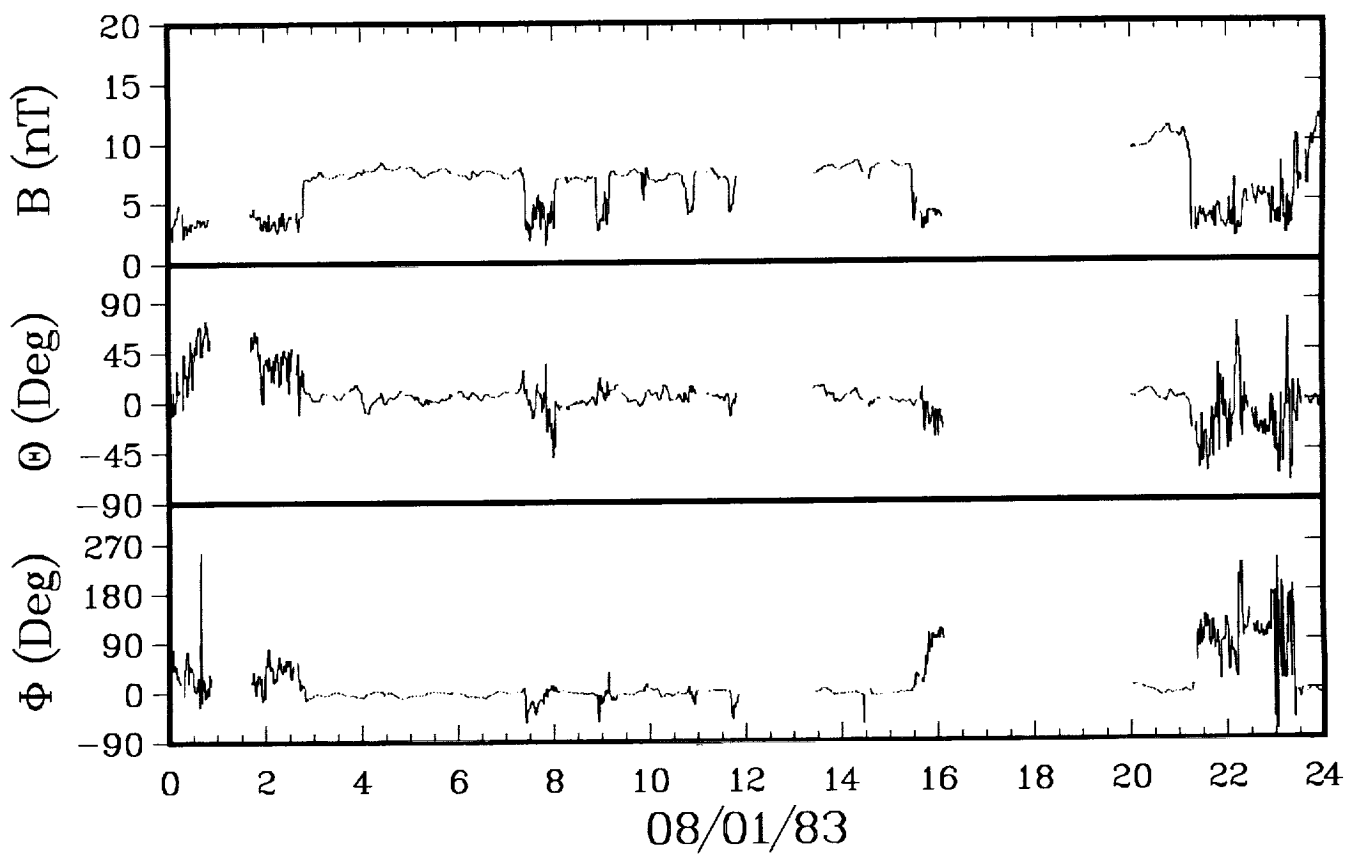


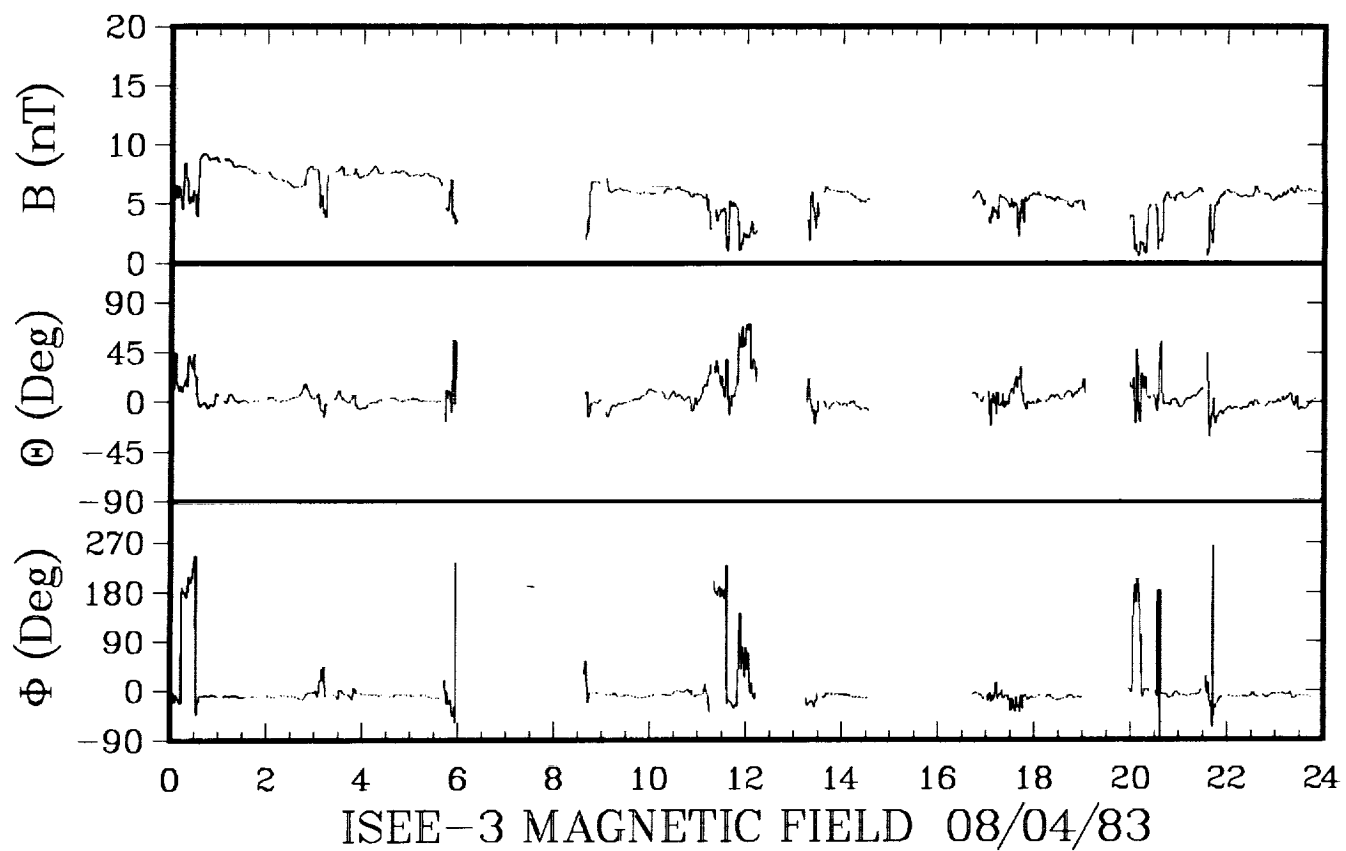
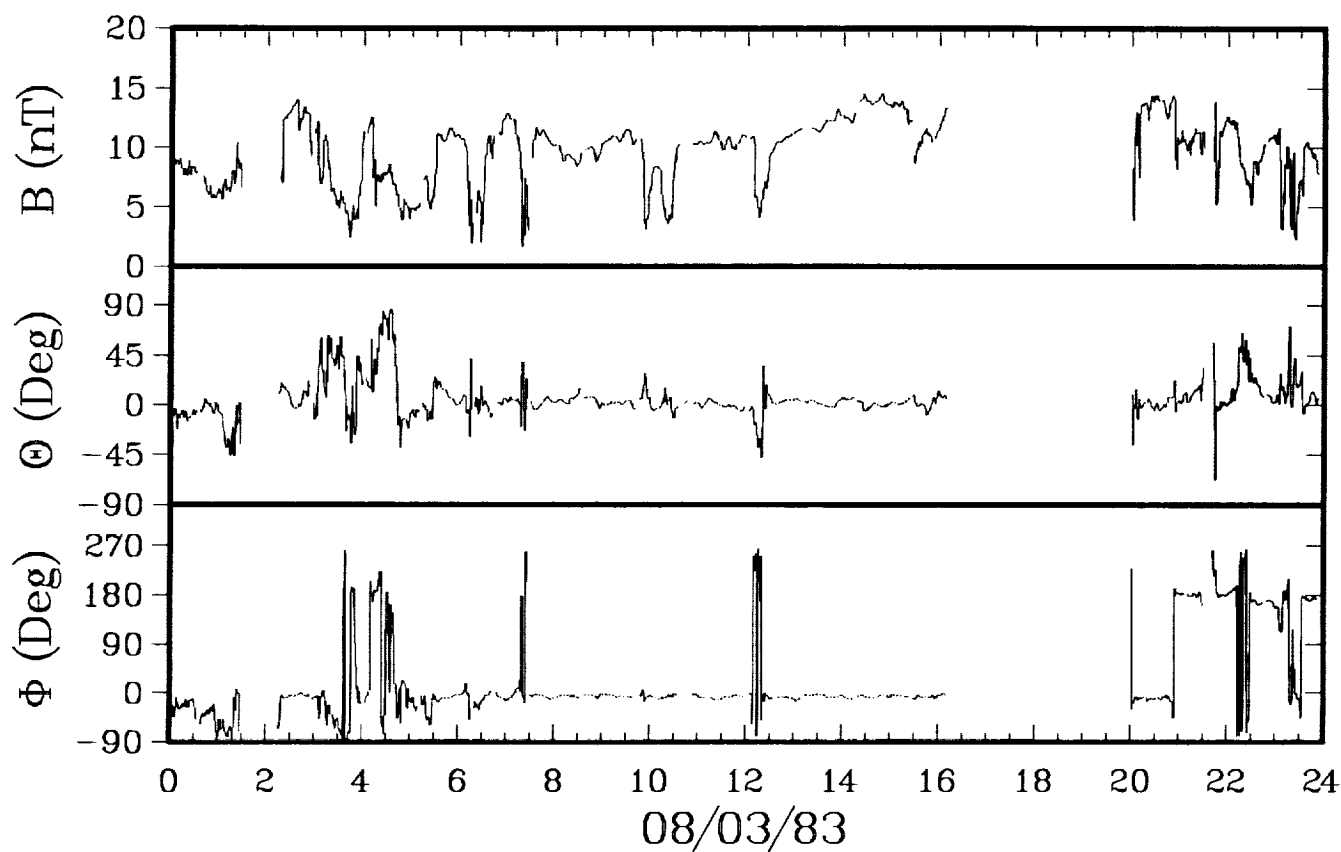


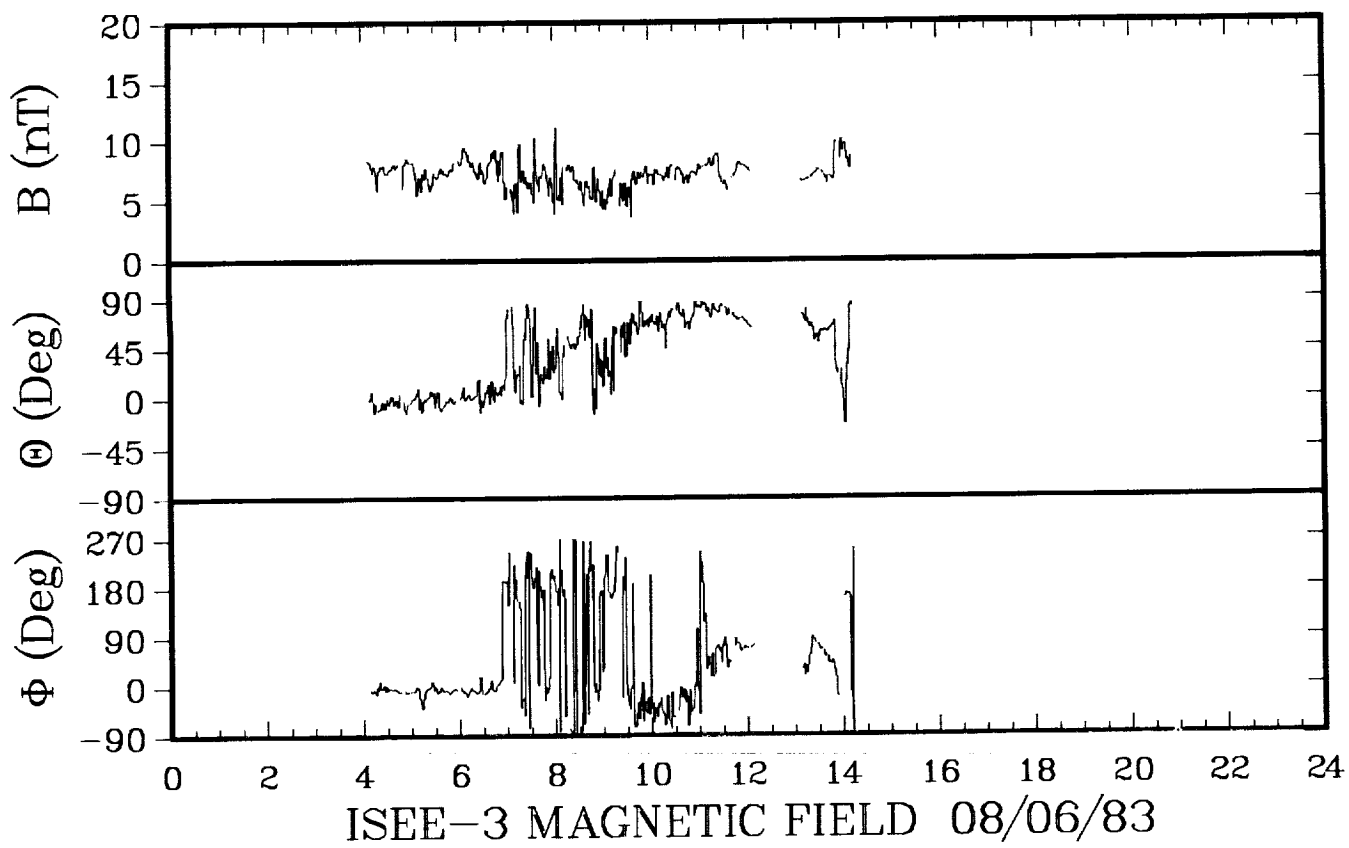
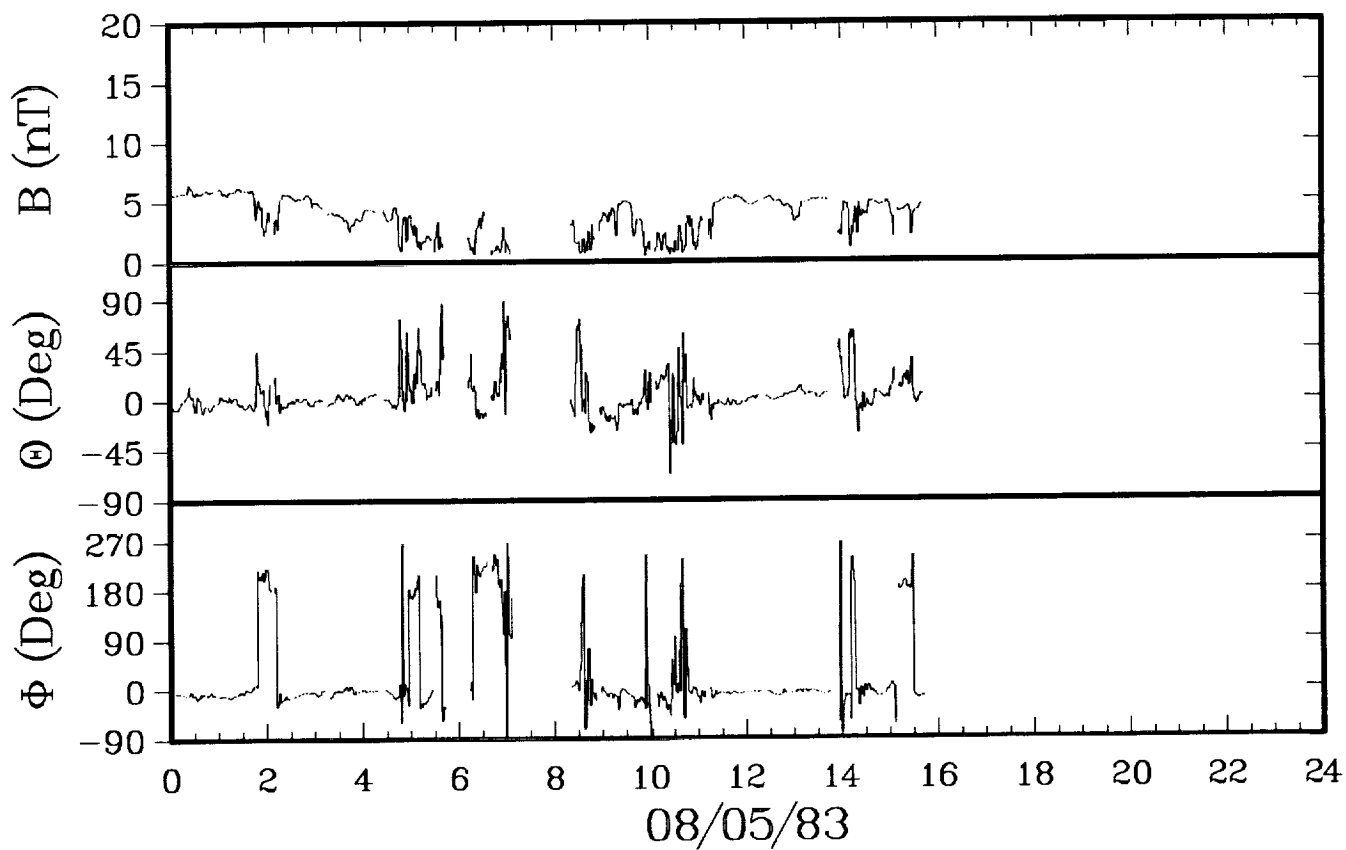


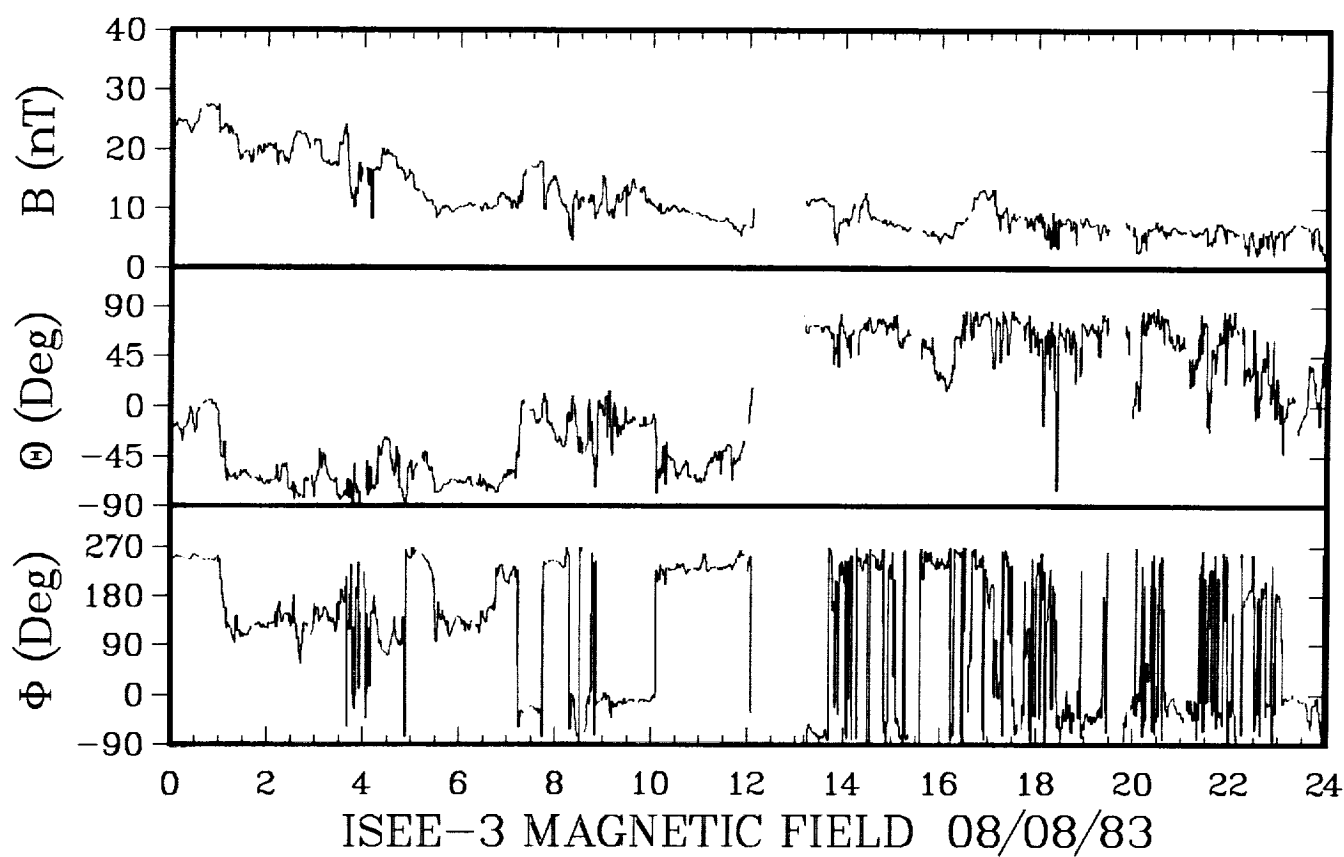
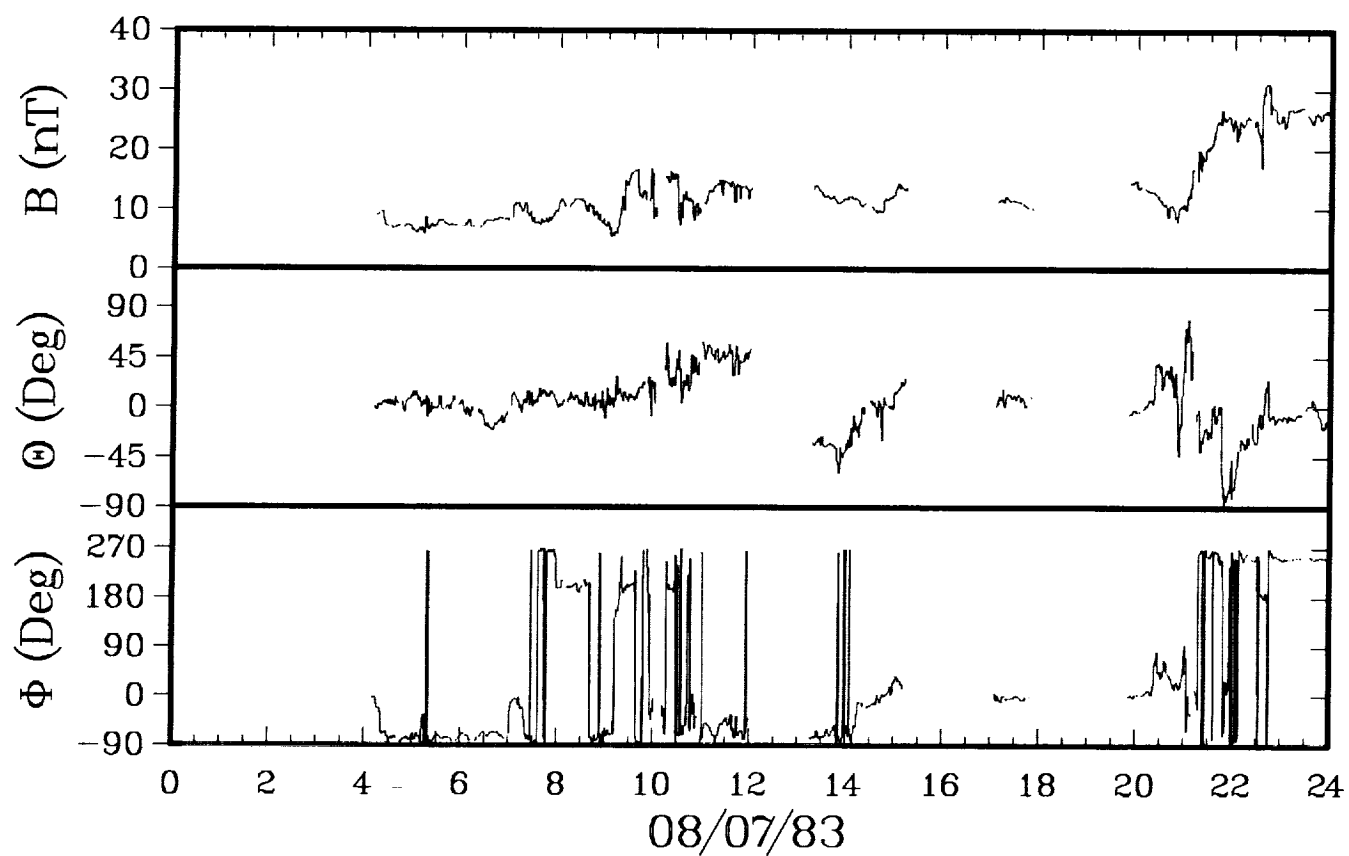


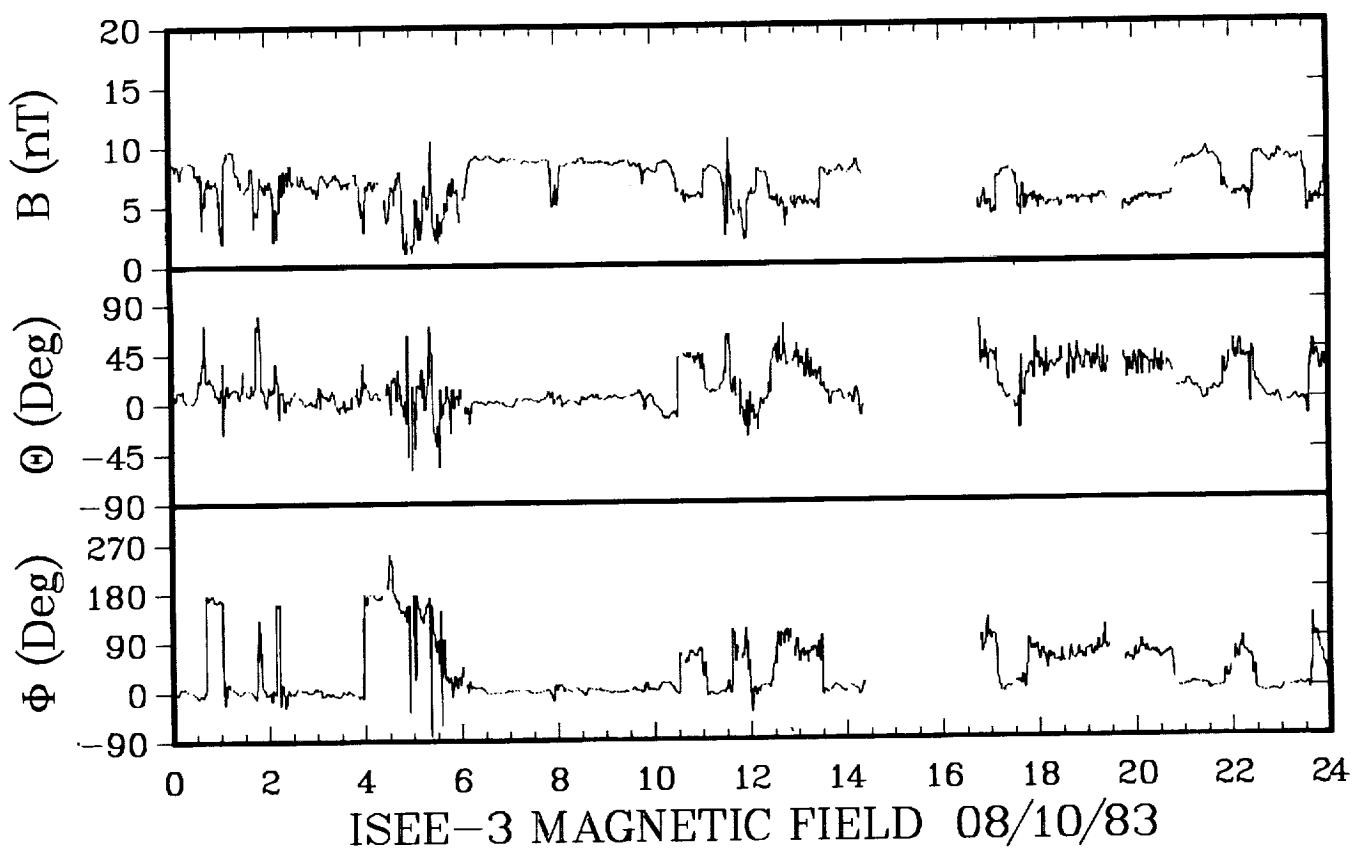
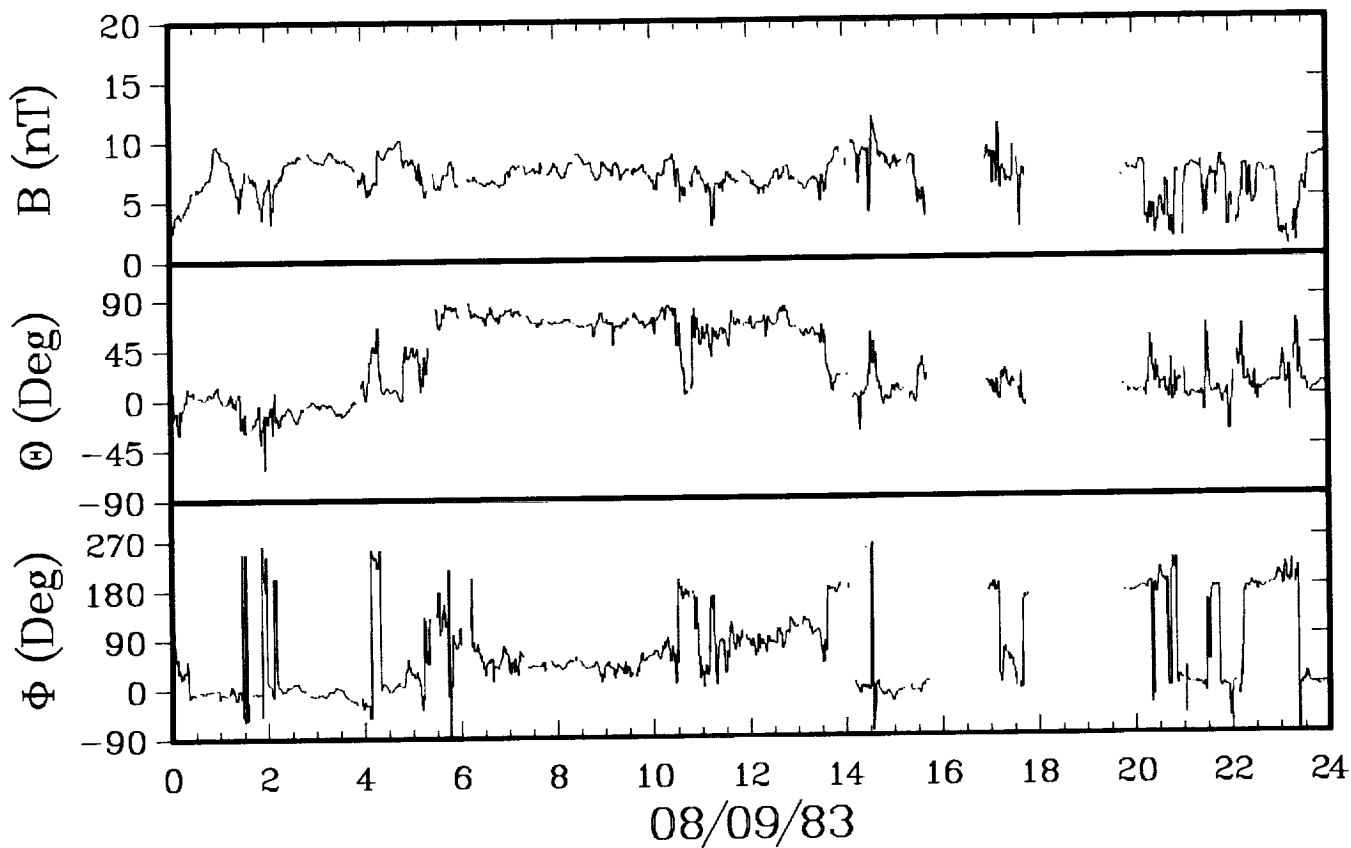


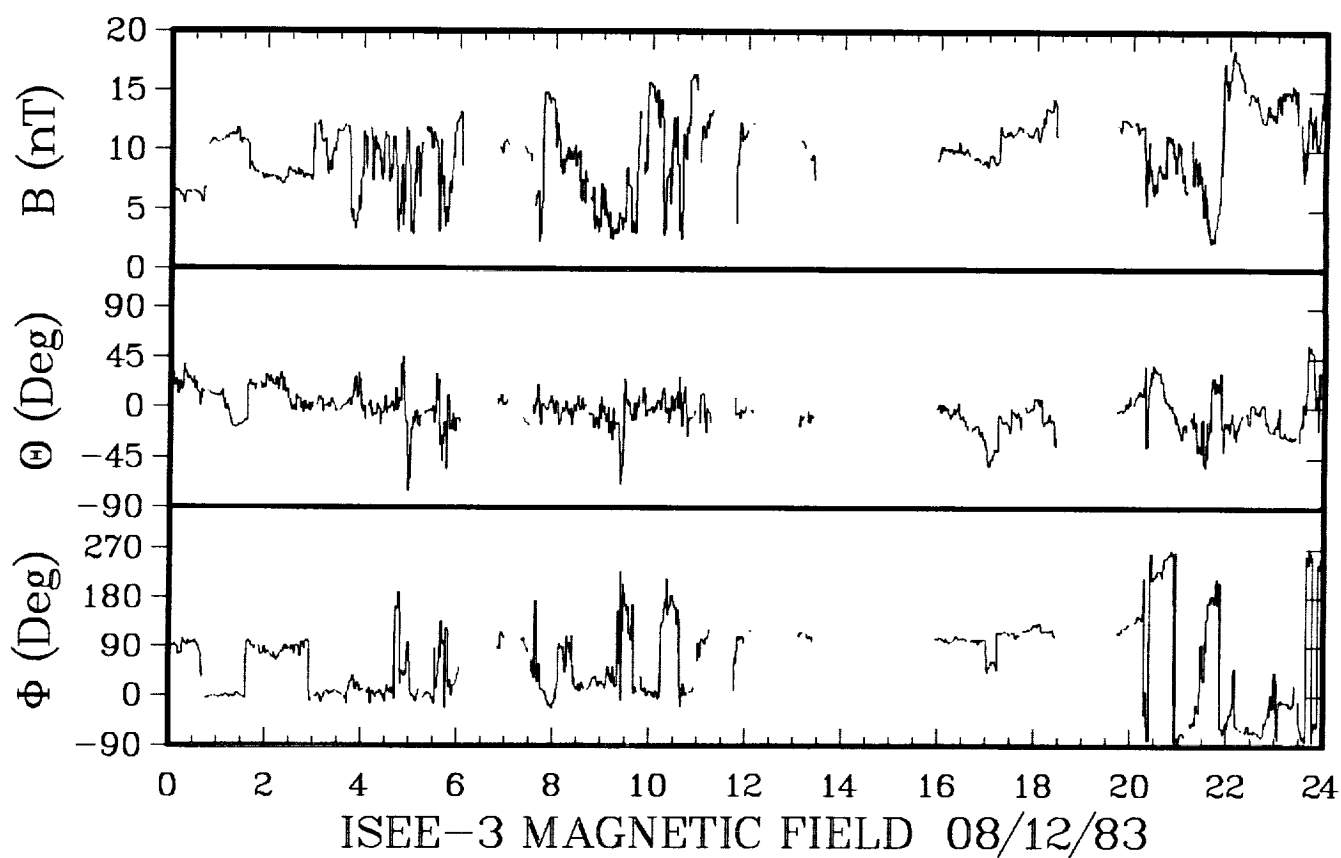
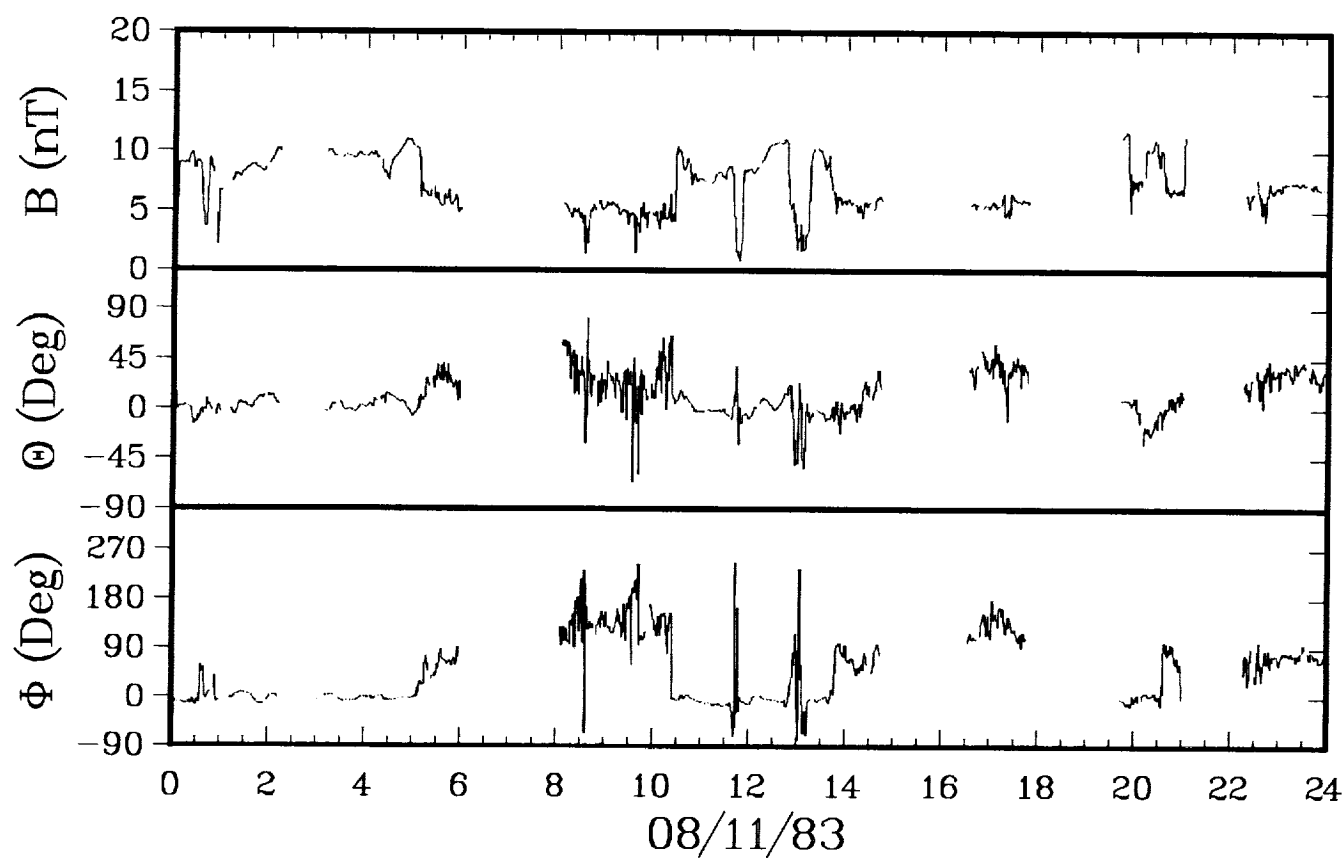


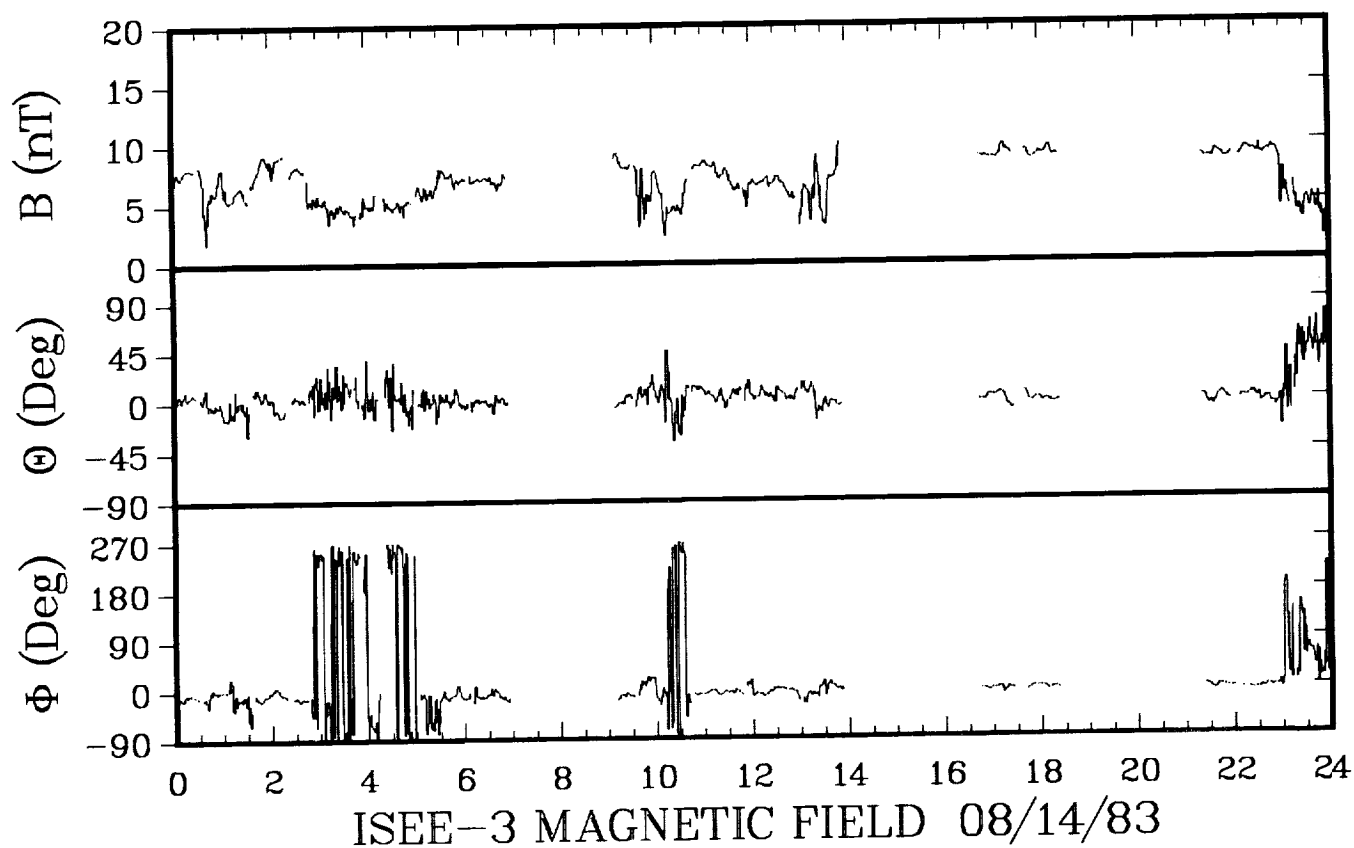
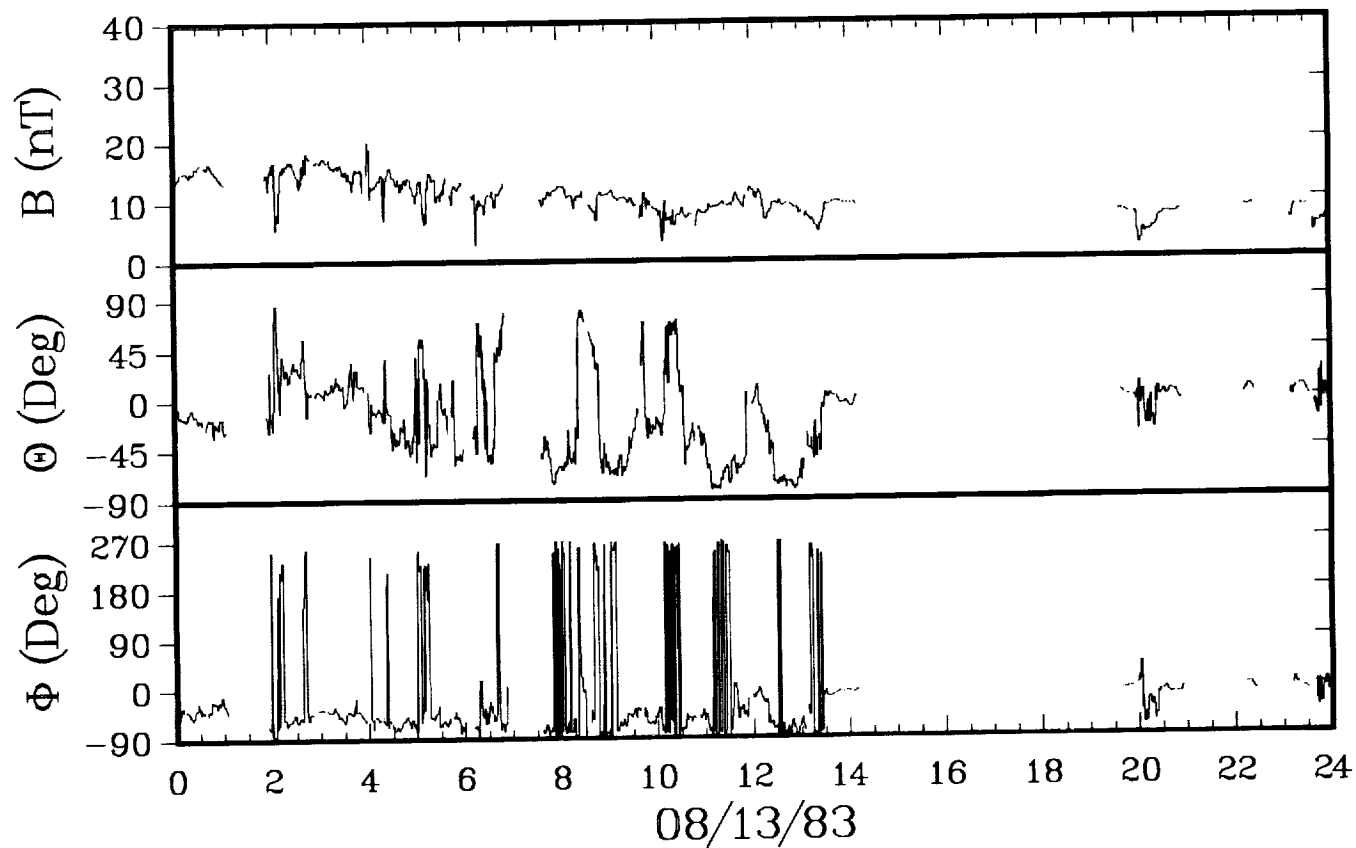


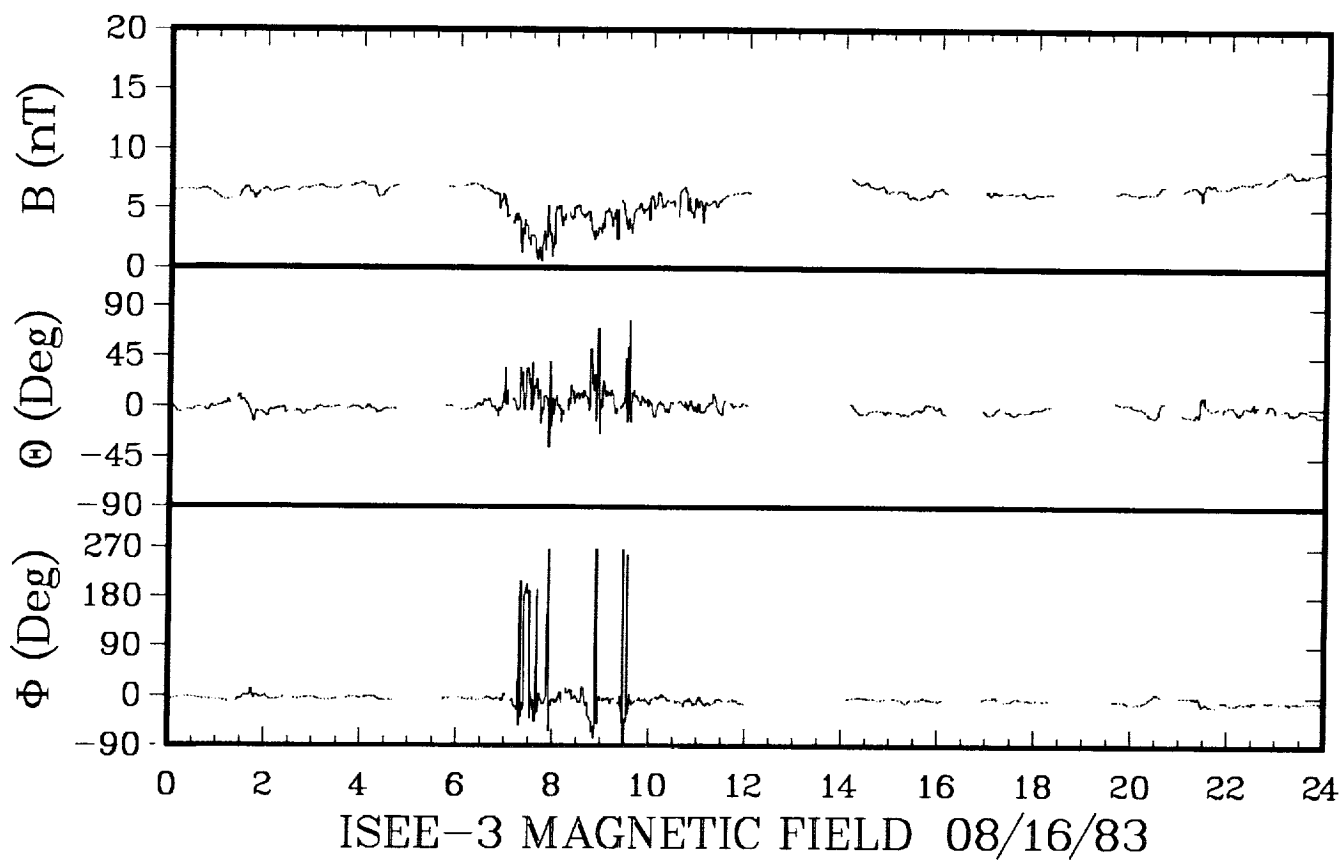
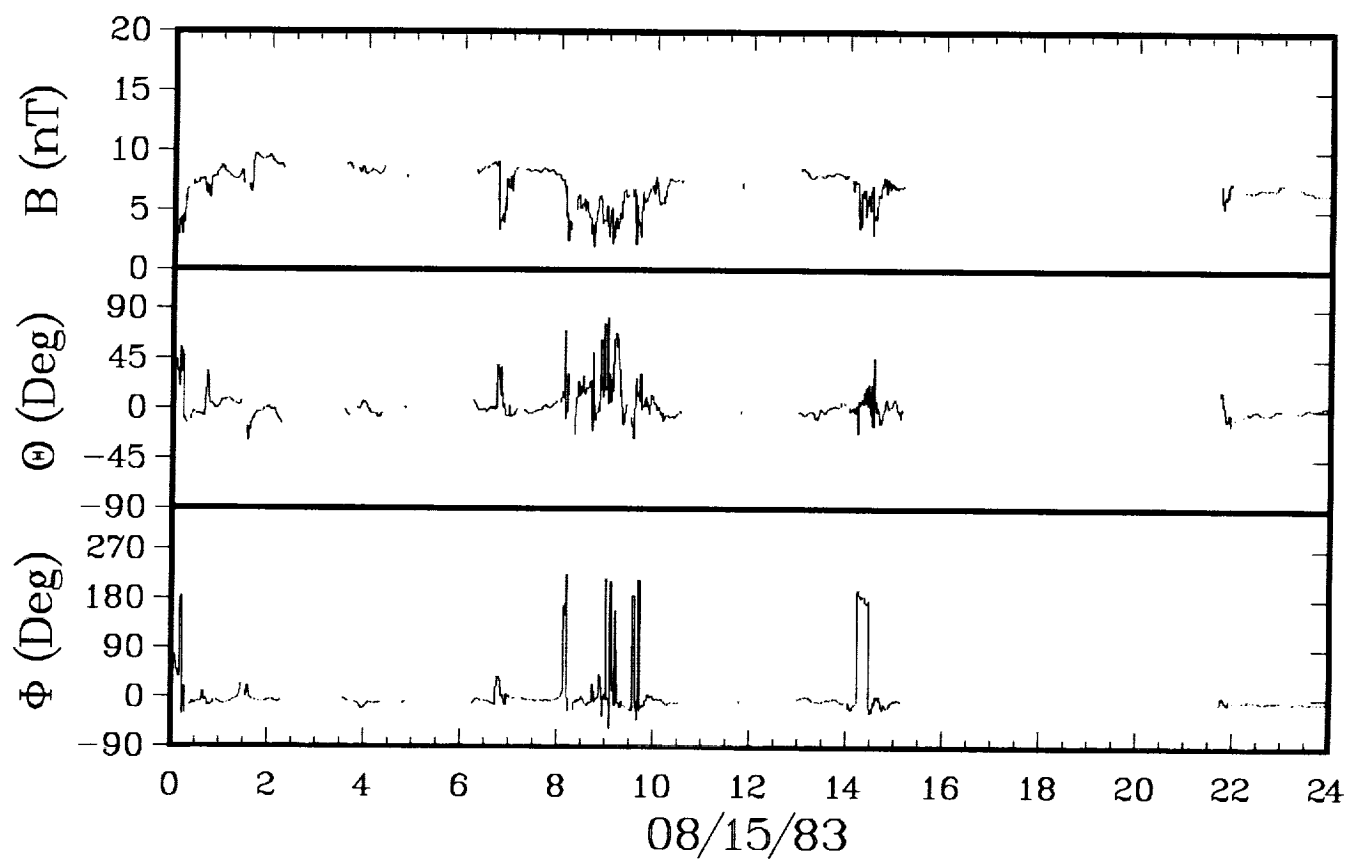


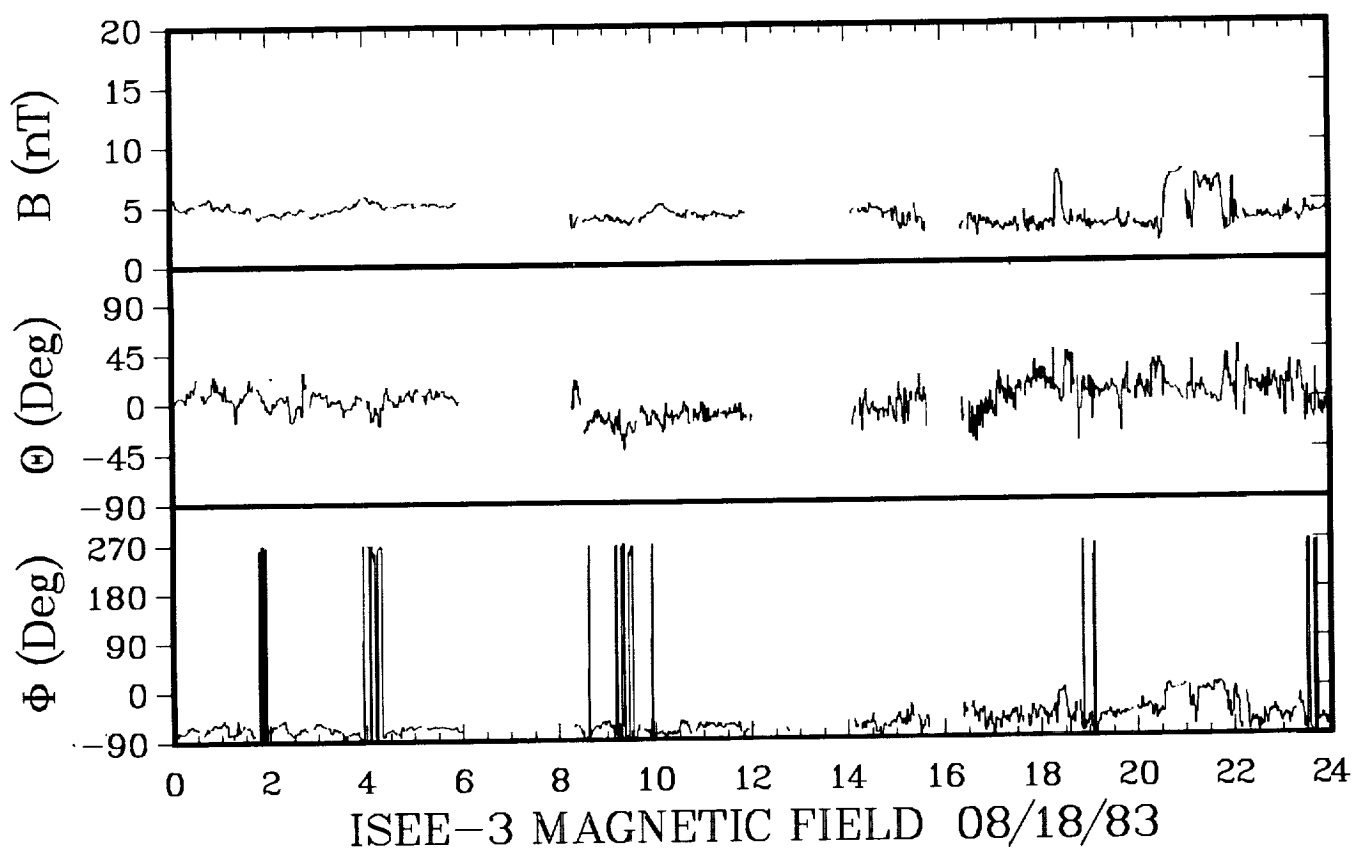
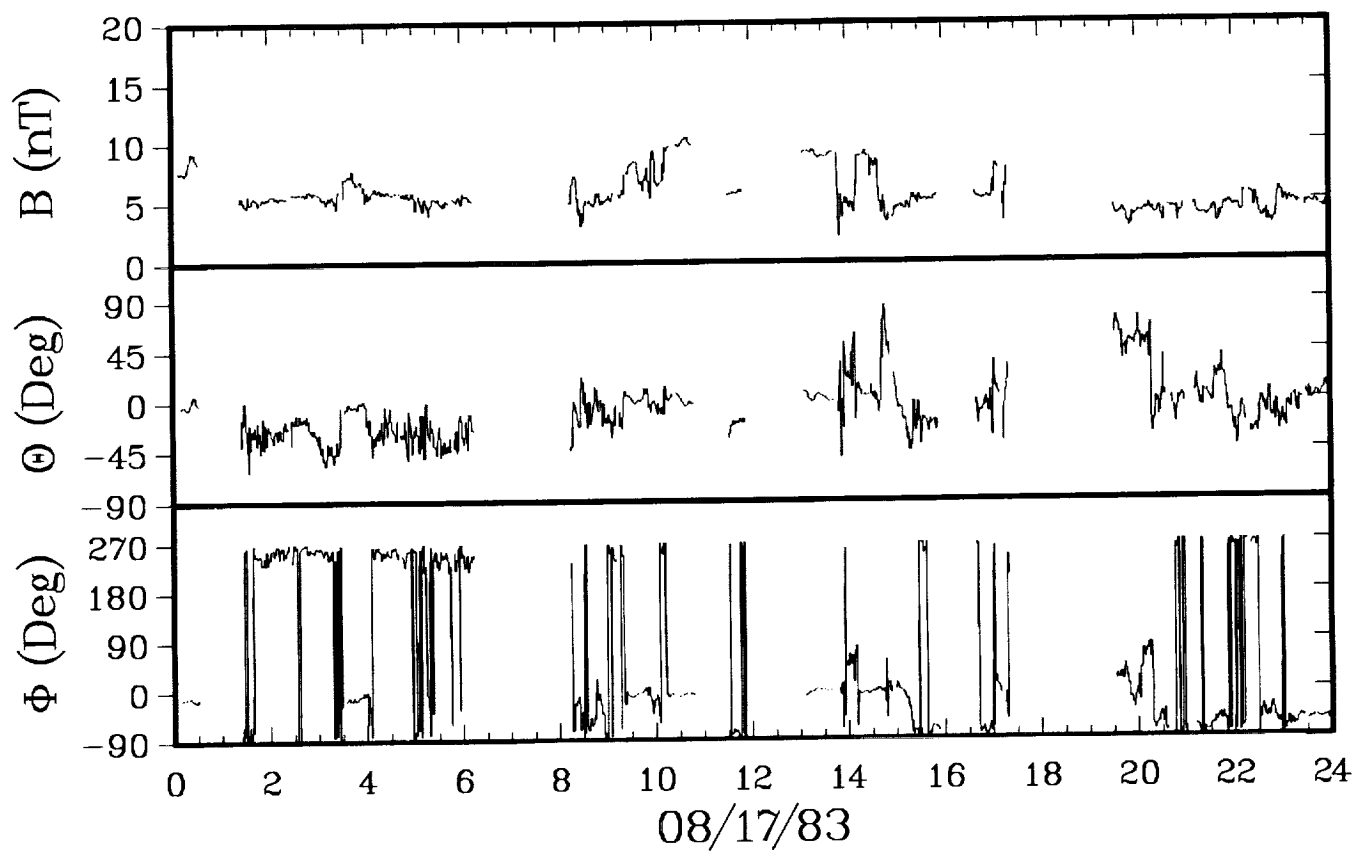


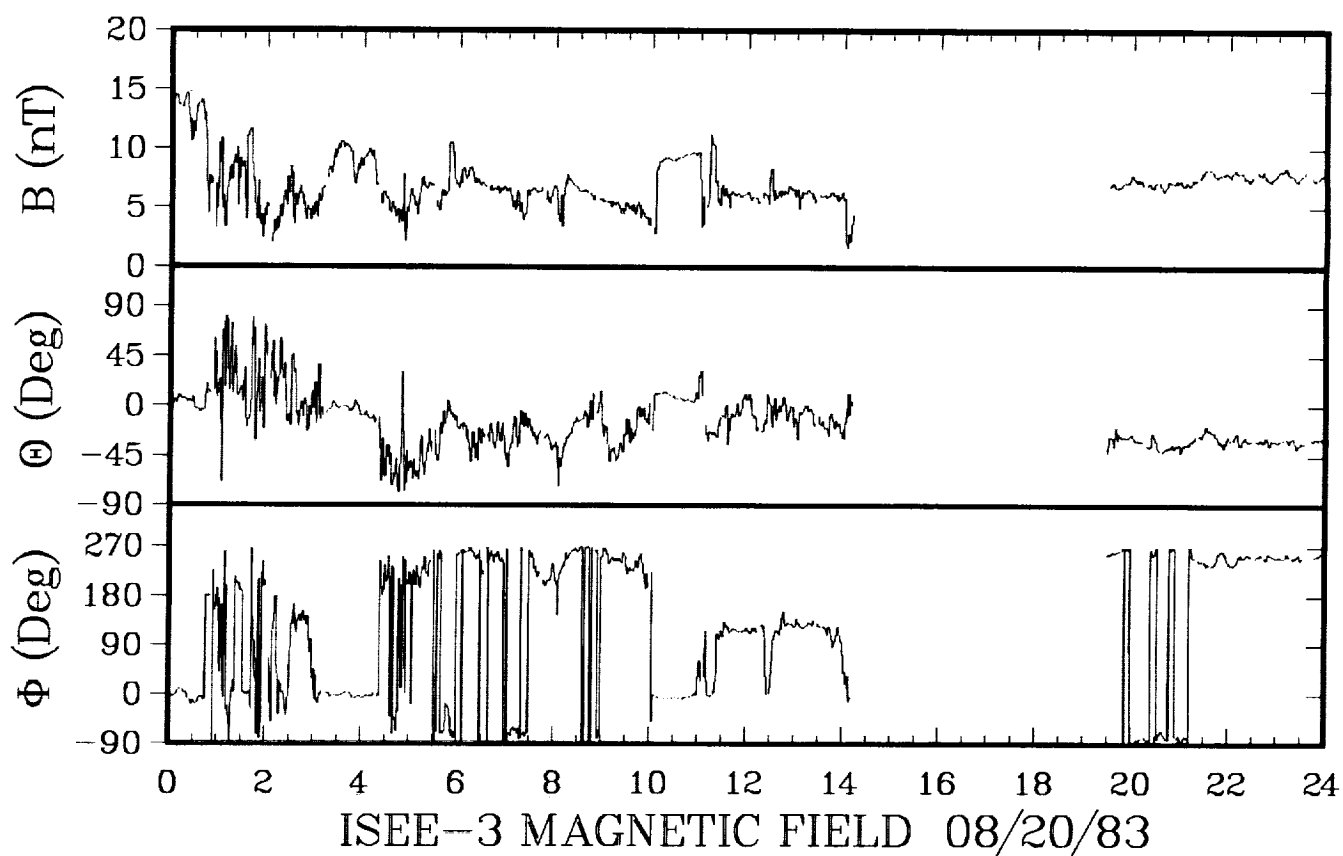
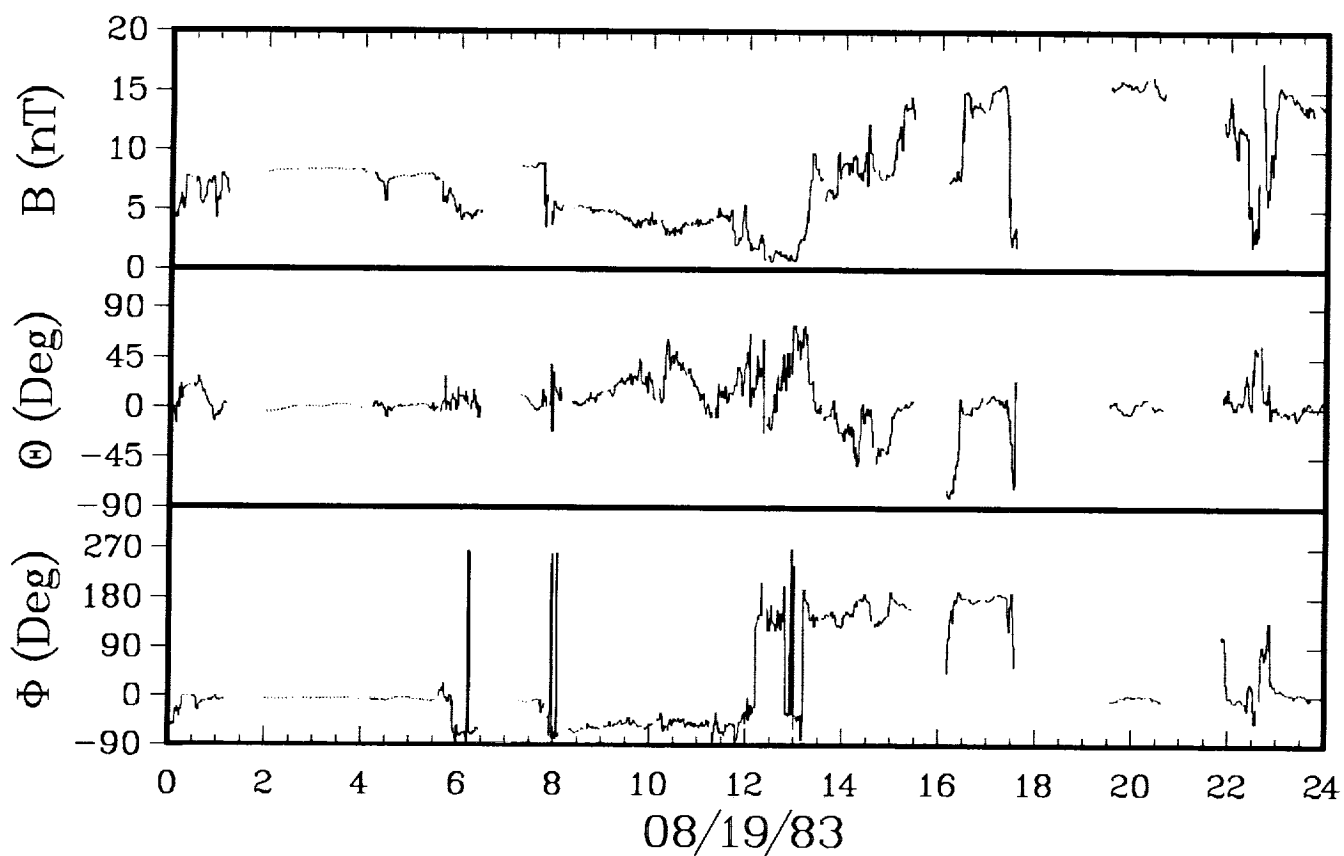


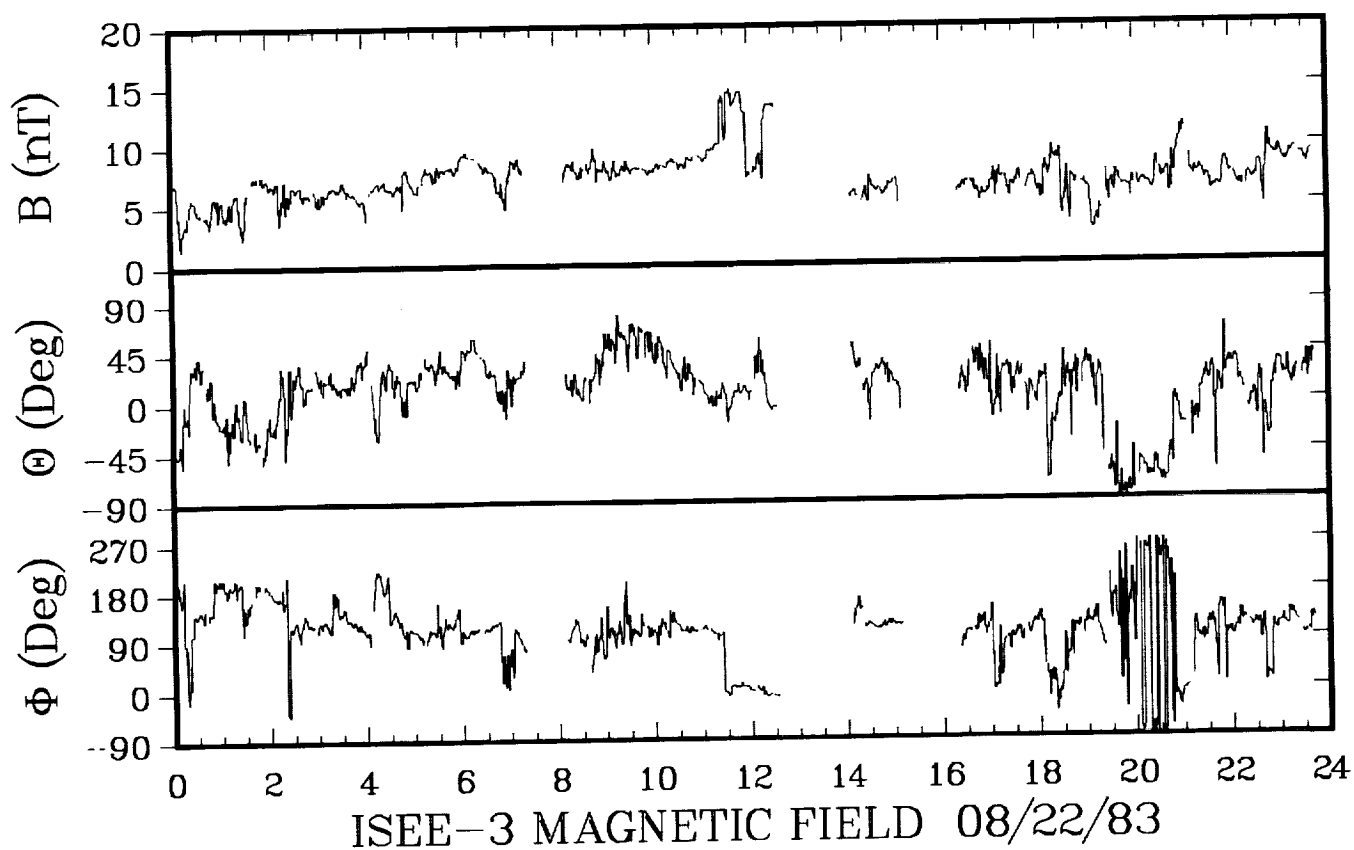
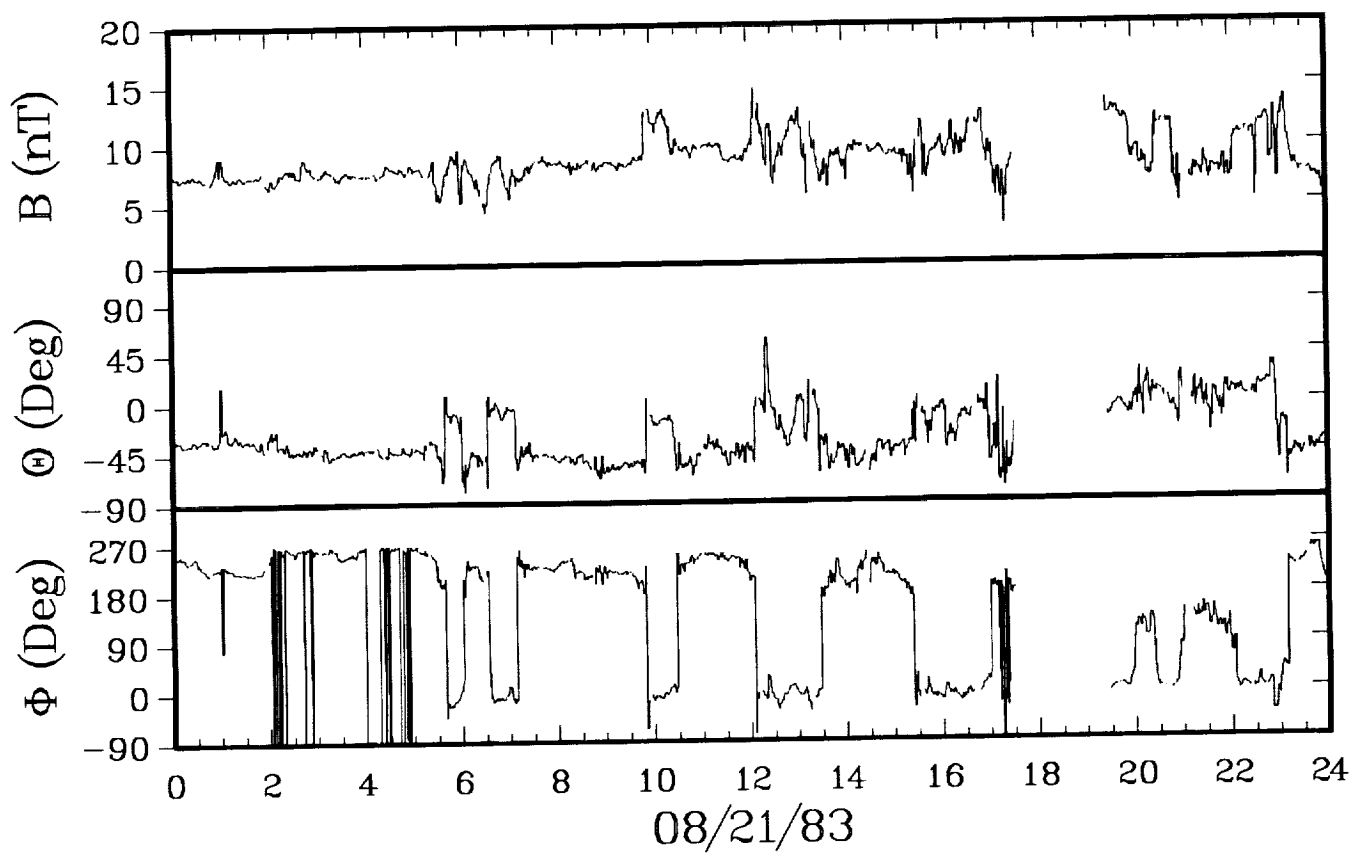


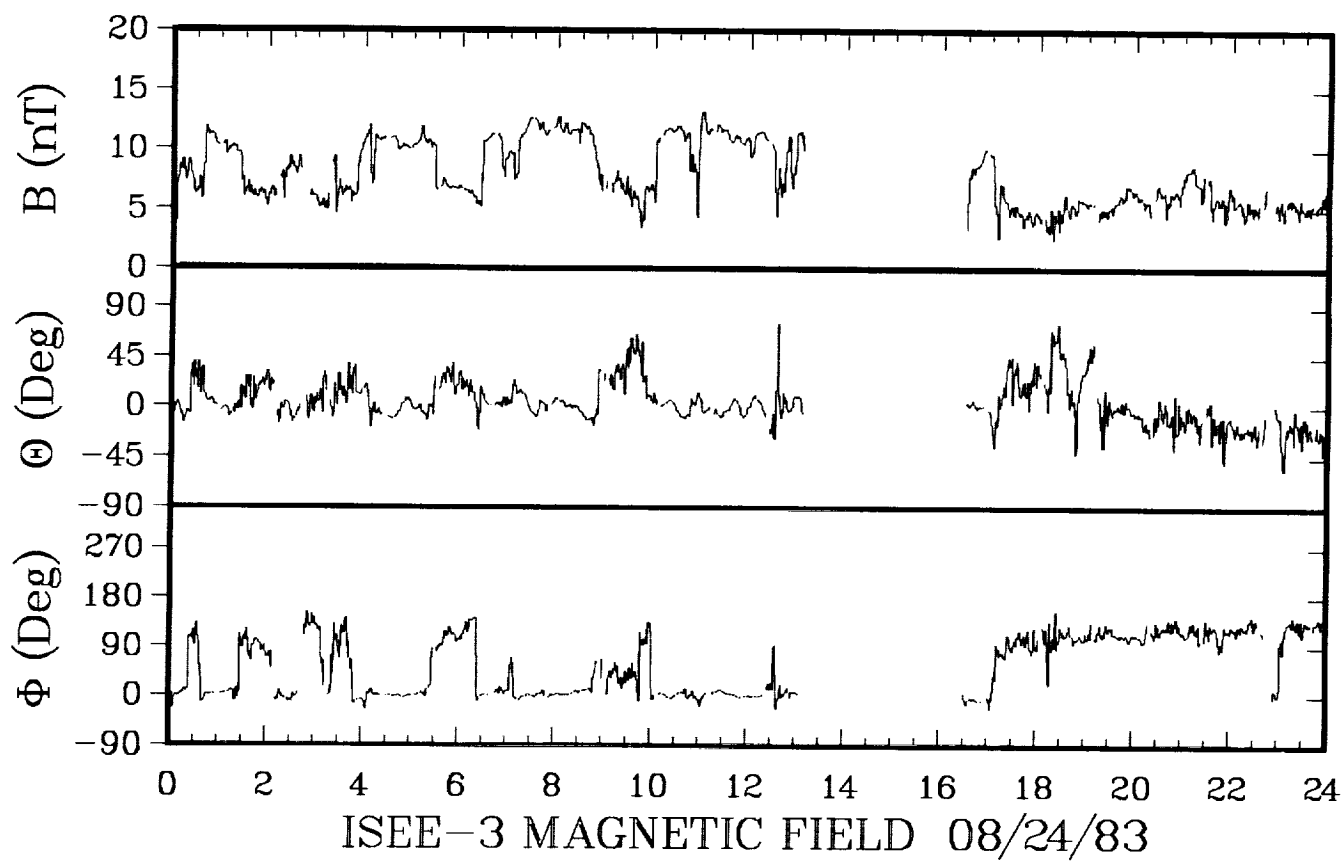
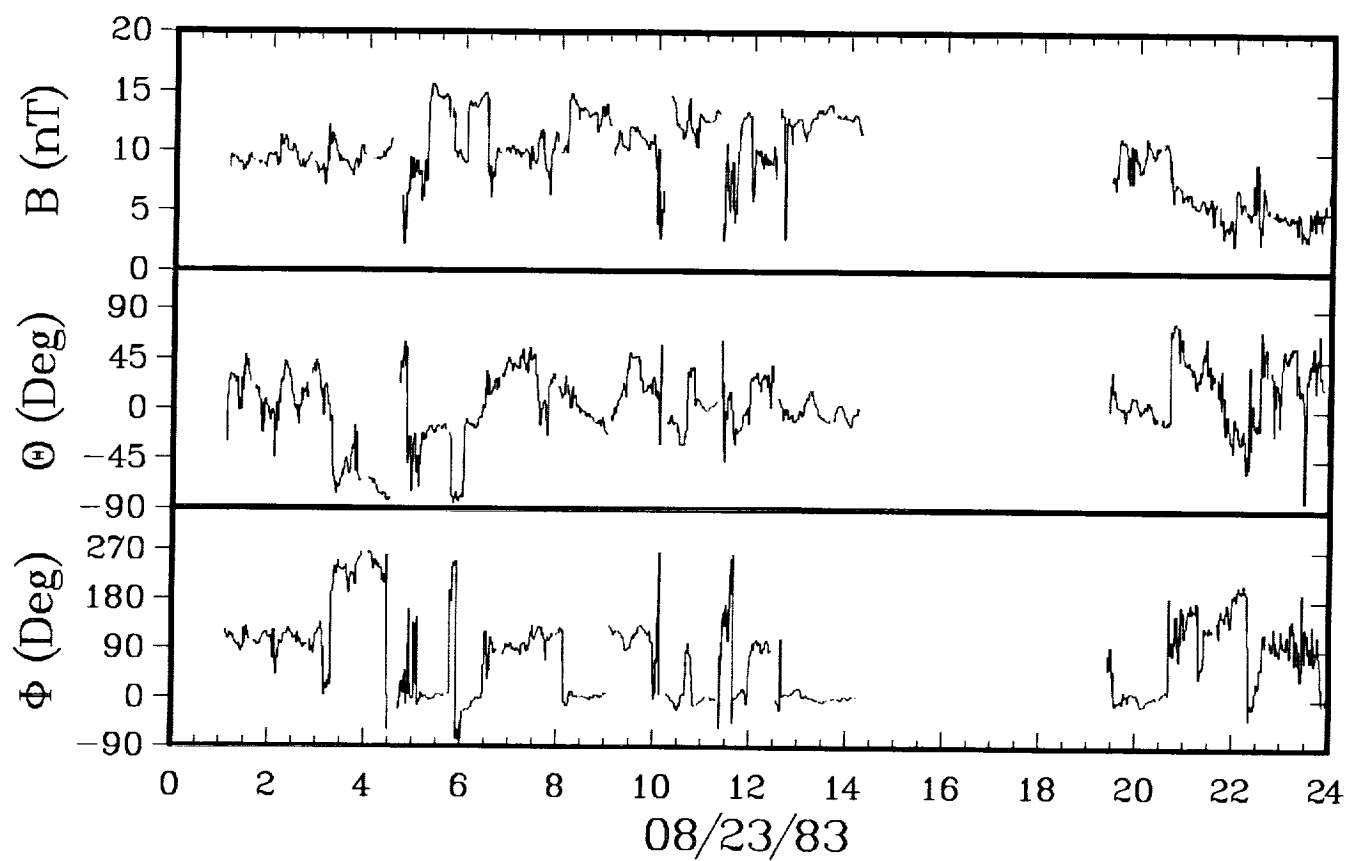


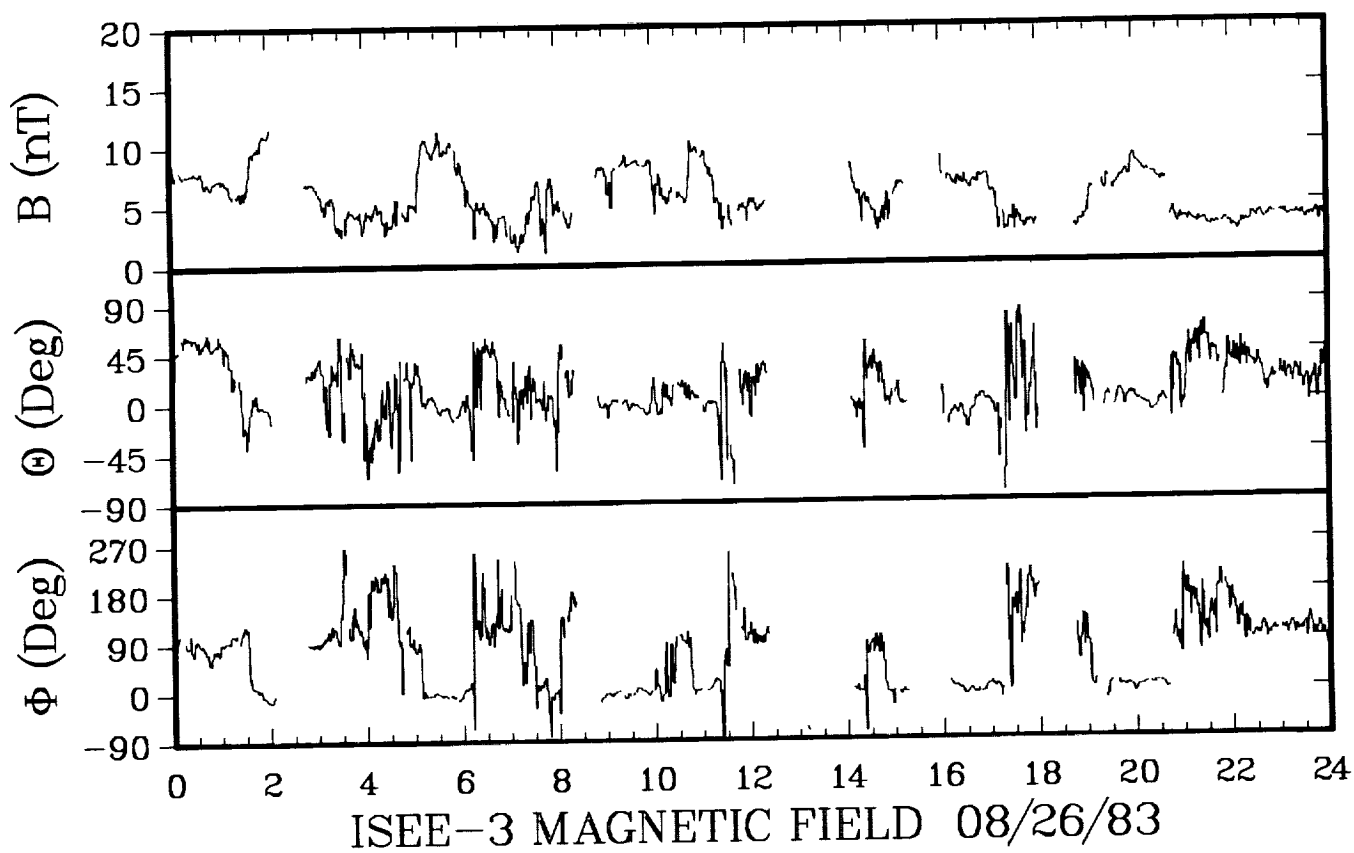
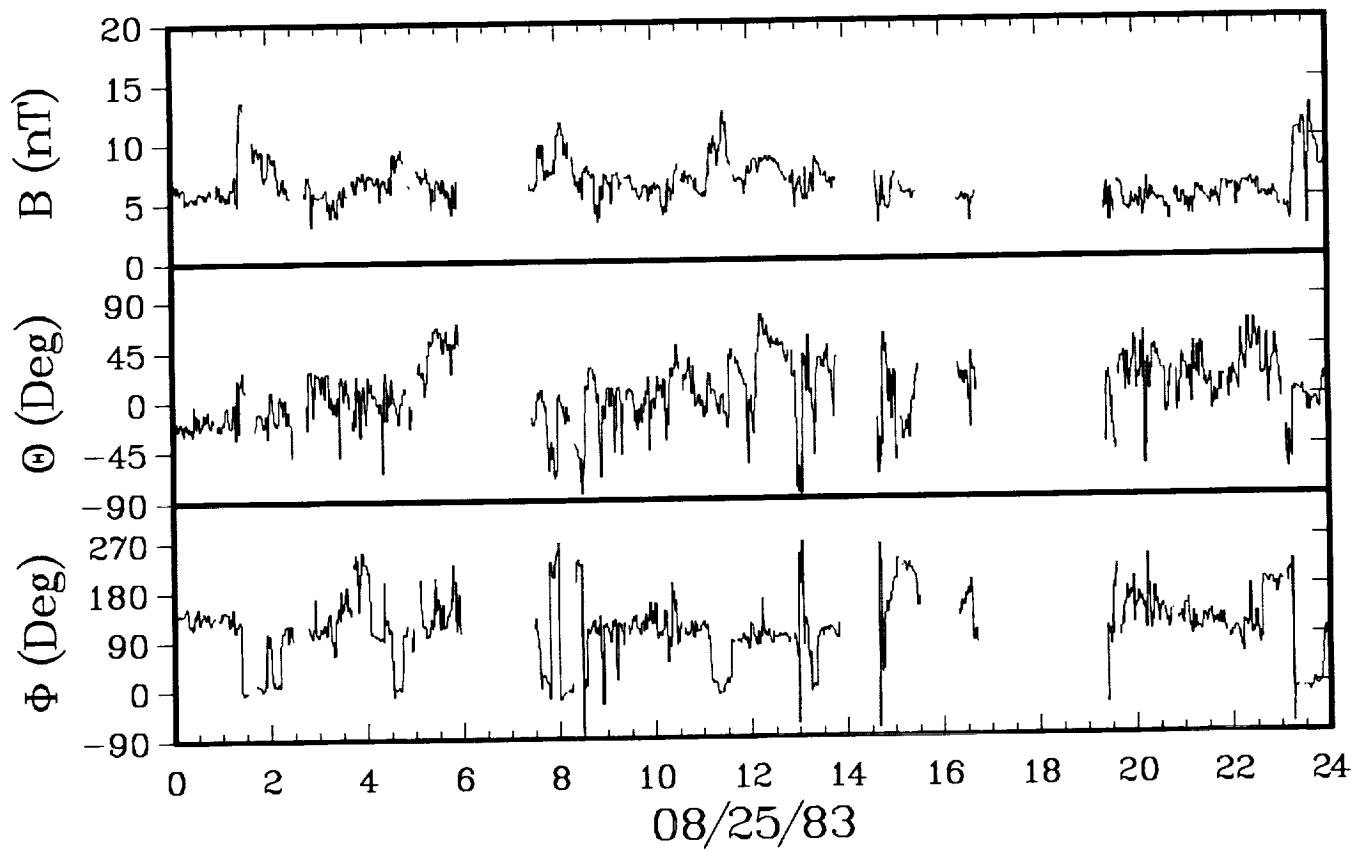


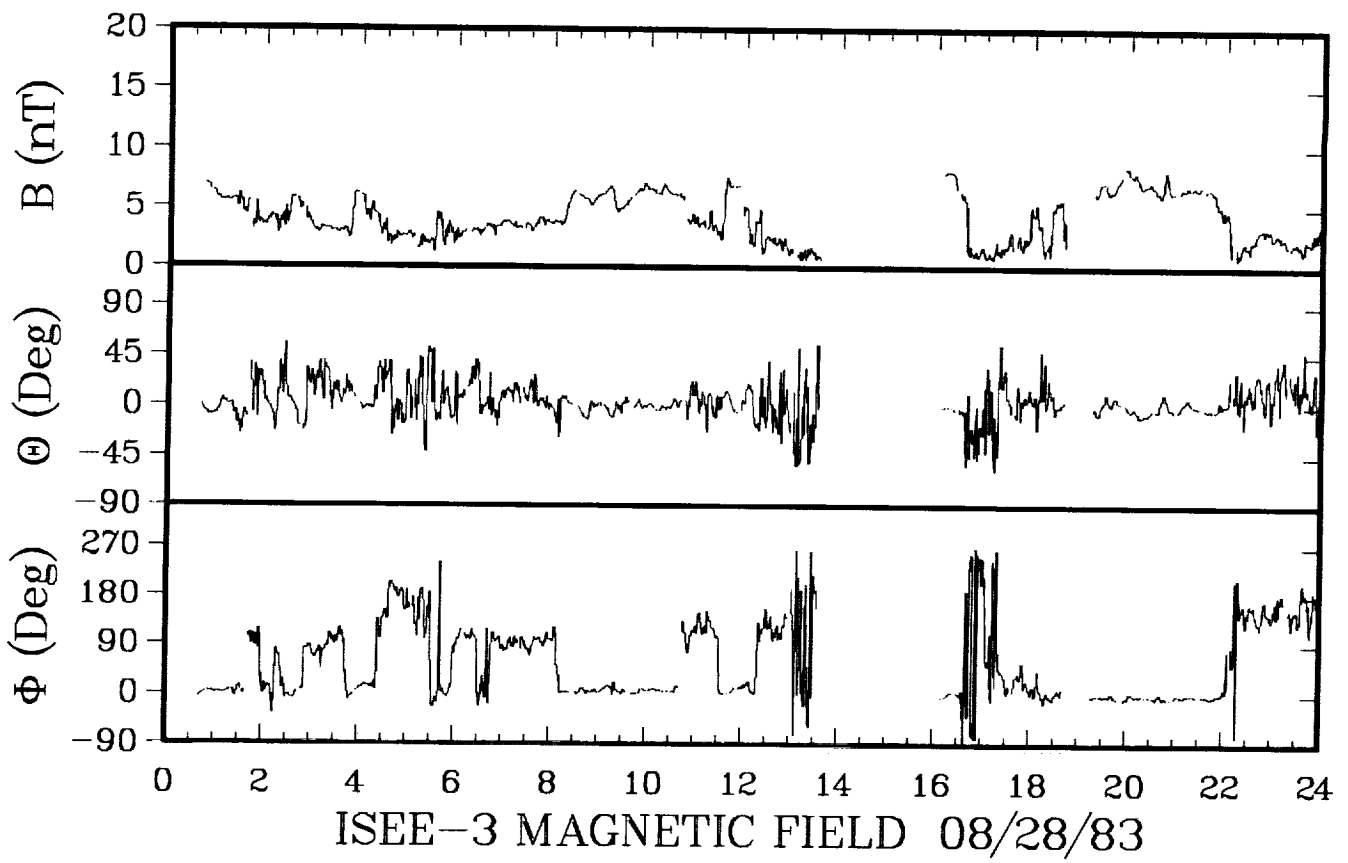
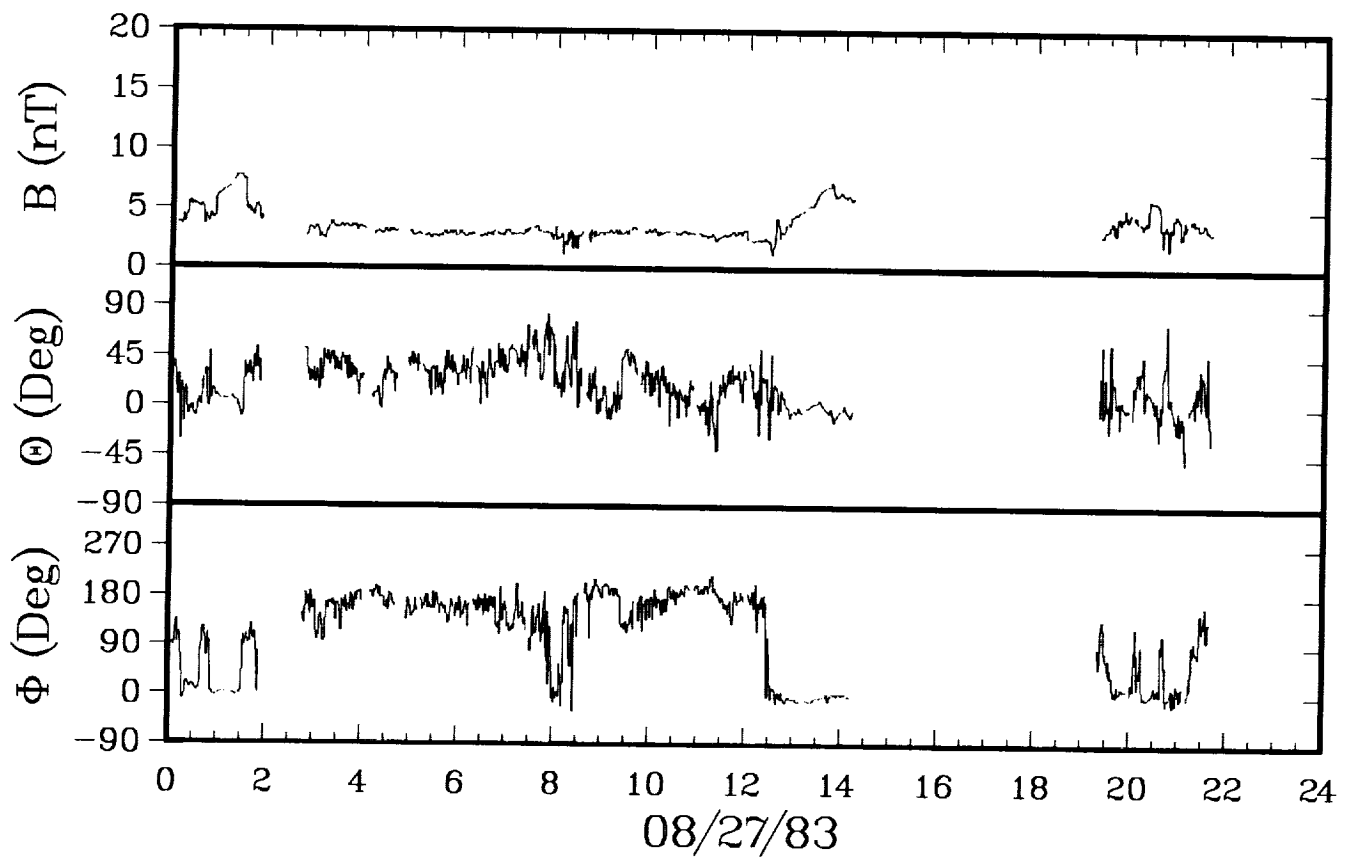


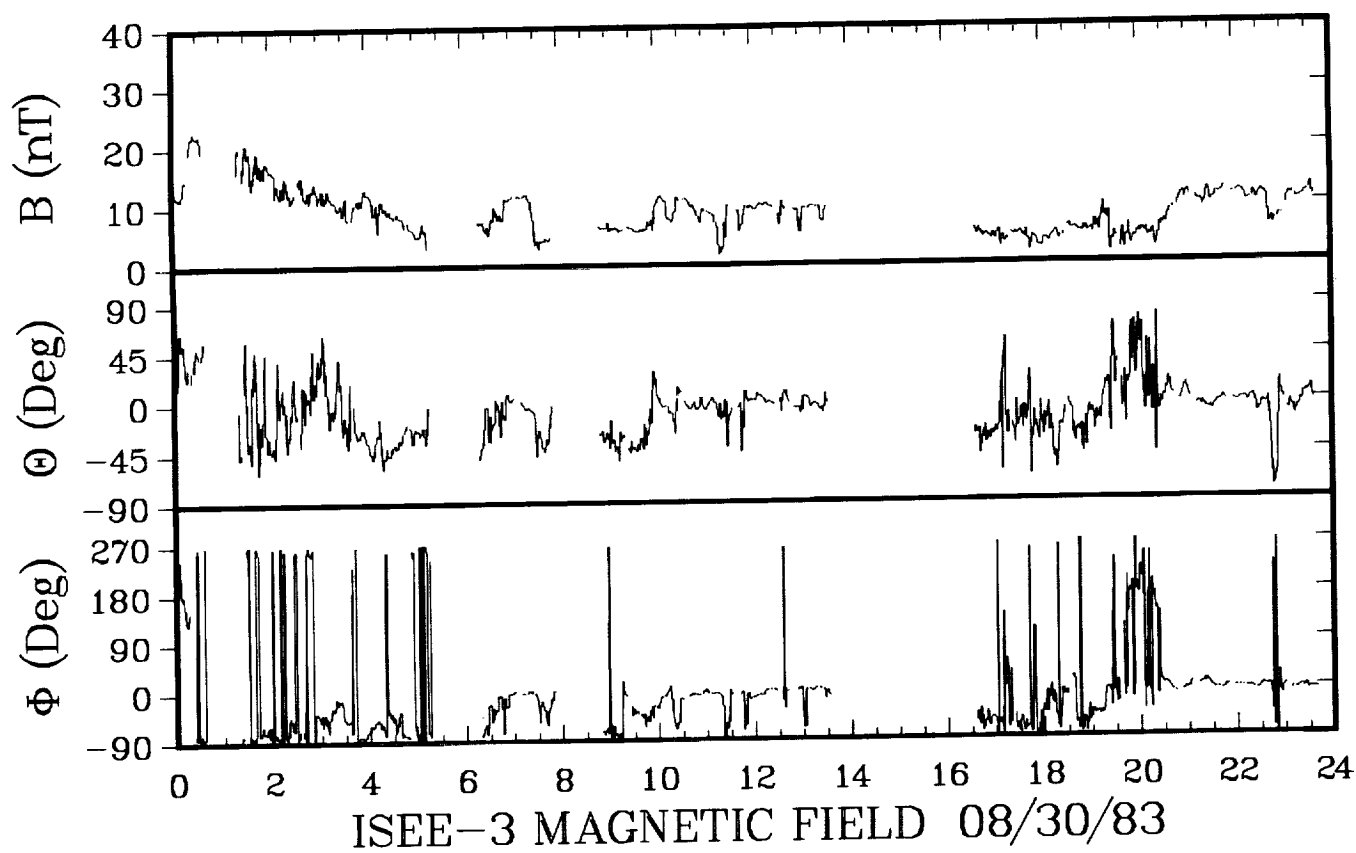
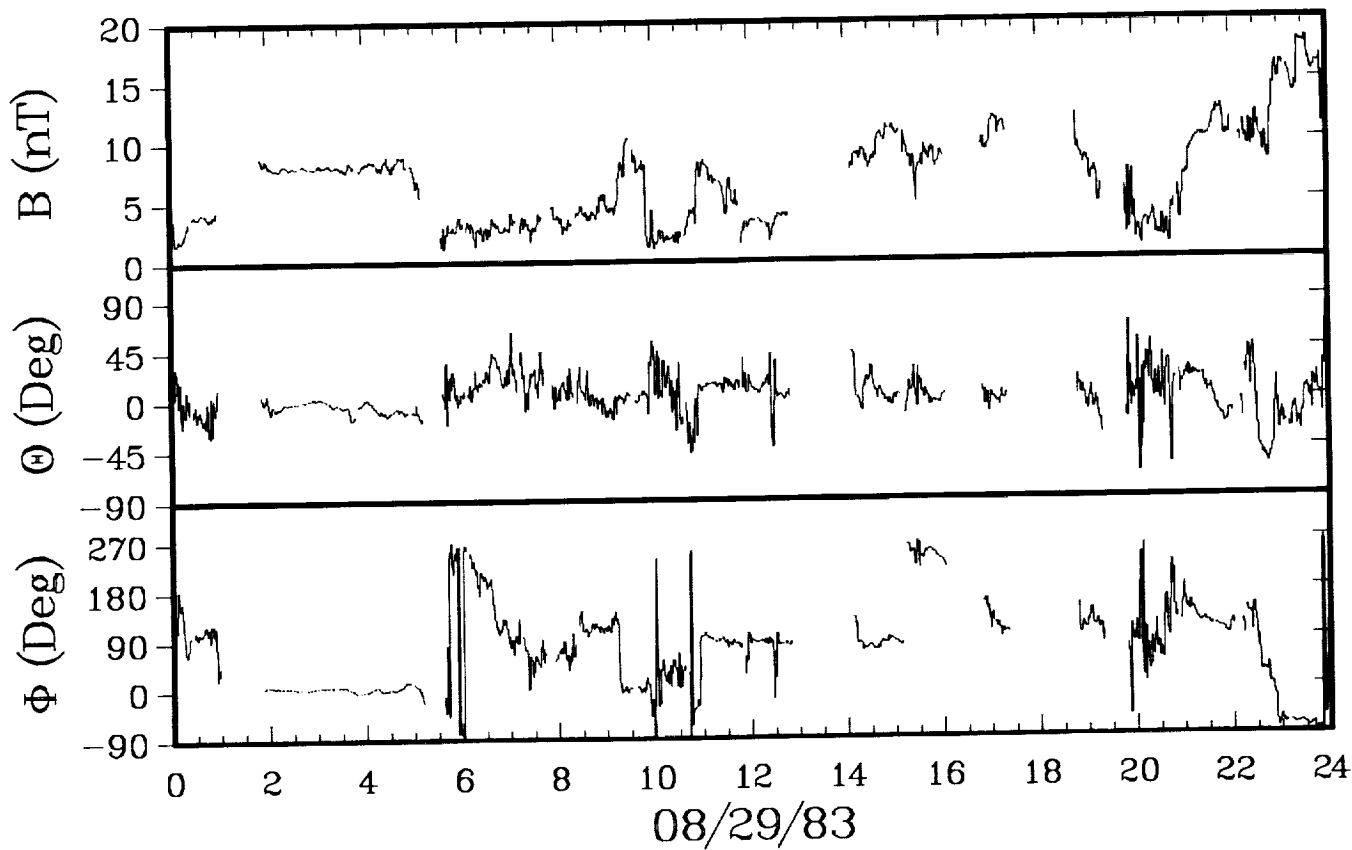


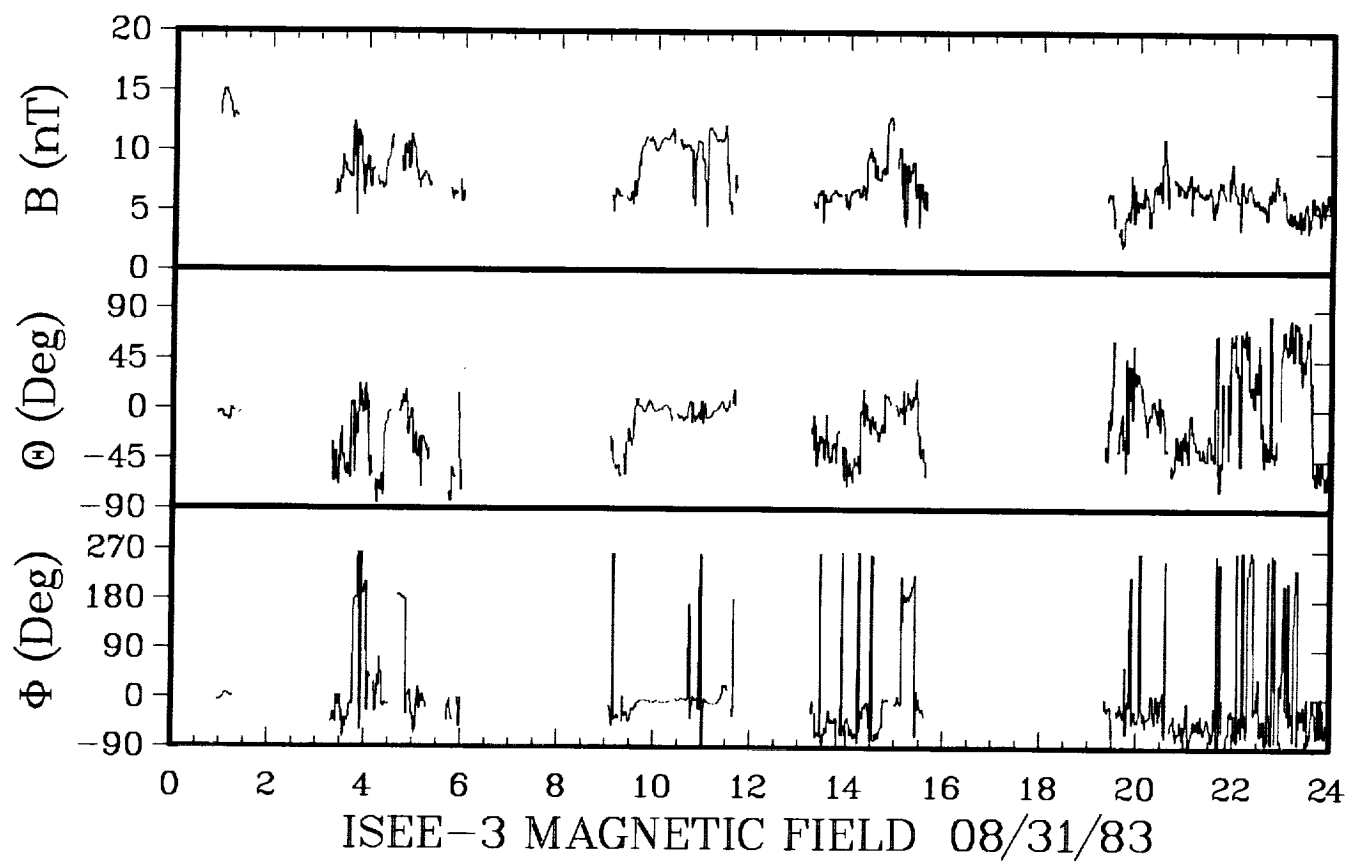


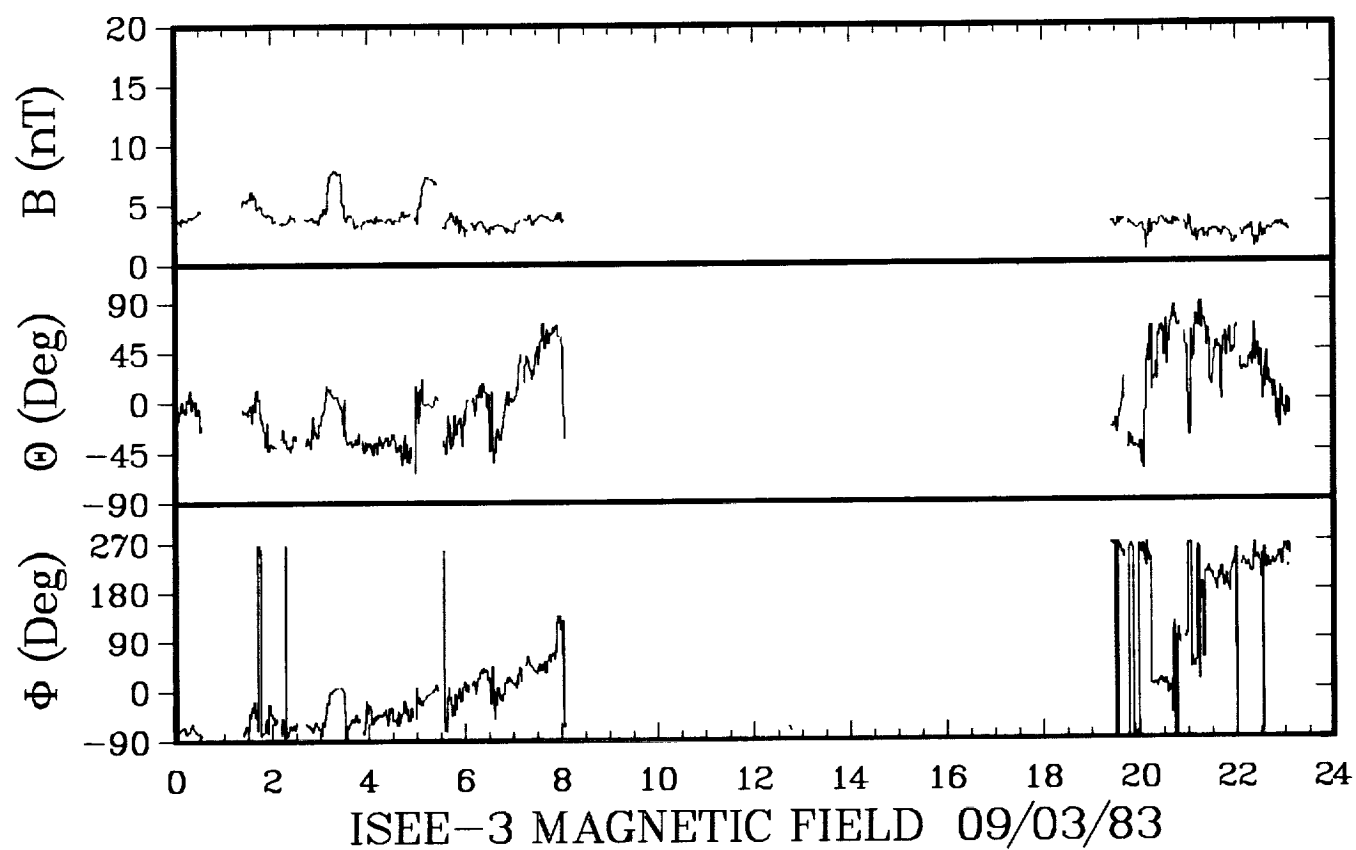
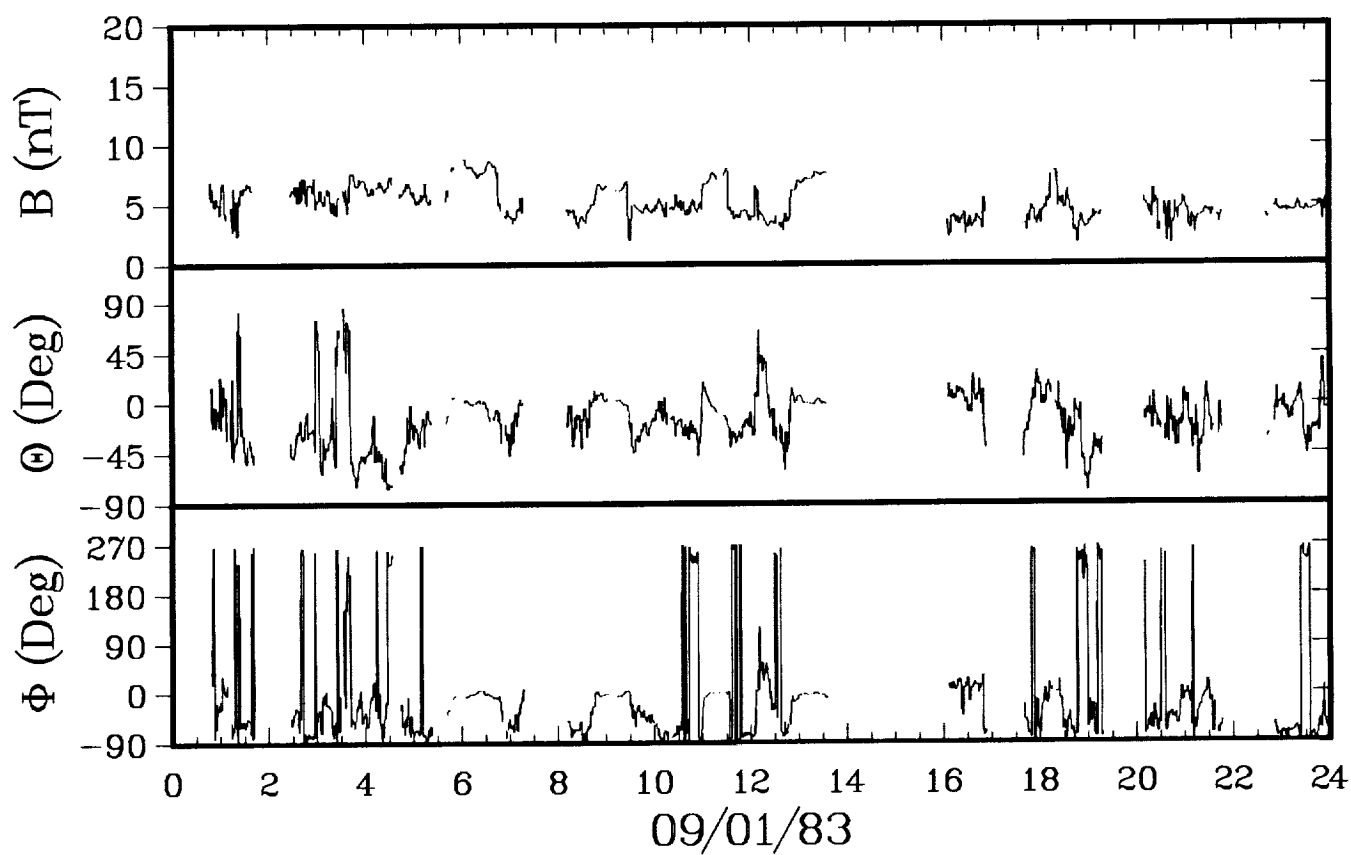


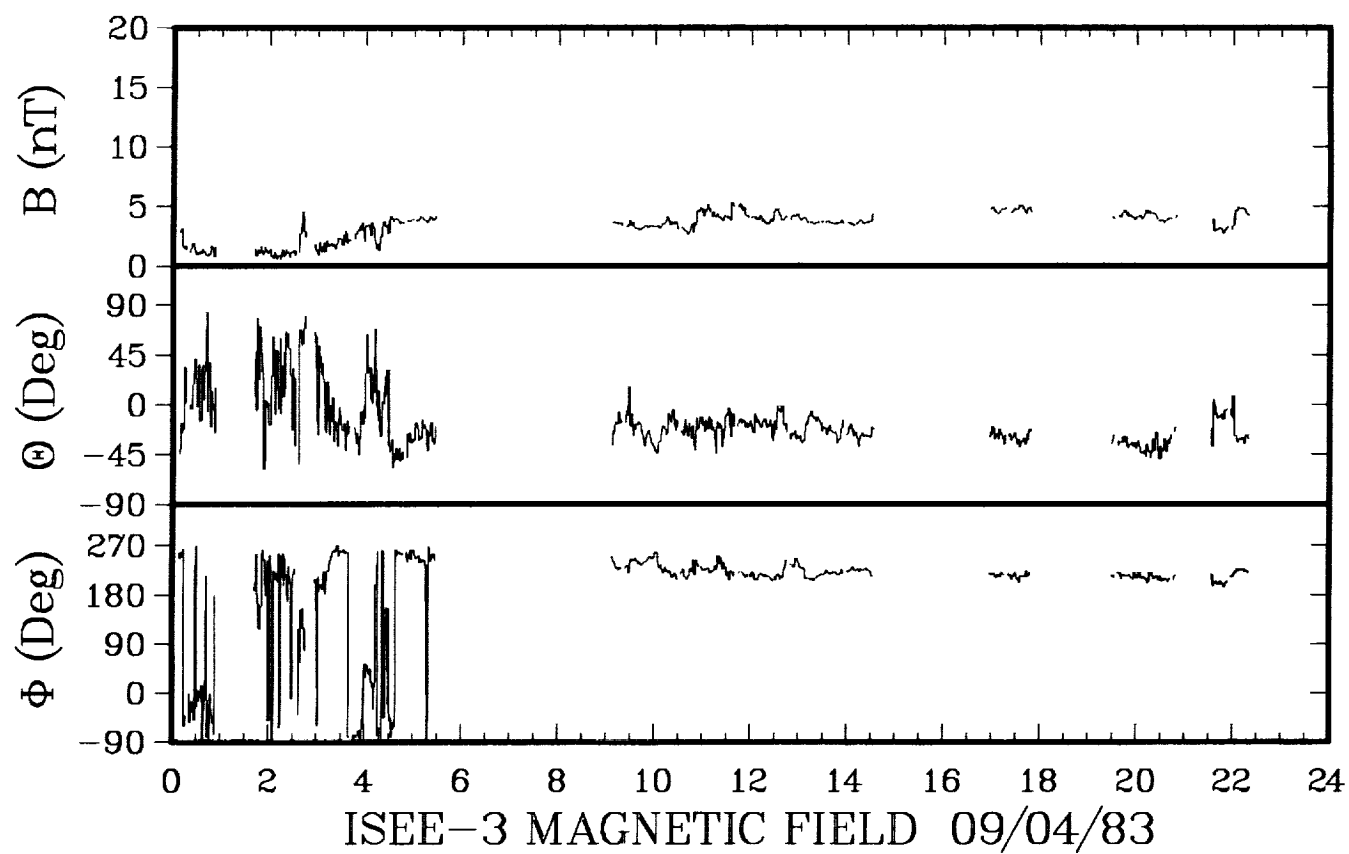












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